COME-STAR

COME-STAR

PRODUCT CATALOG

Connecting the World, Bridging the Future

Come-Star Communication(Wuhan) Co., Ltd.

www.come-star.com

**** 86-21-59257958

Puneng Industrial Park, Fenghuang Garden 1st Road, Wuhan, China

PRODUCT CATALOG



ENTERPRISE PROFILE

COME-STAR is a hi-tech enterprise focusing on reliable industrial network communication products and independent and controllable system solutions, headquartered in the national high-tech development zone Wuhan, "China Optical Valley".

COME-STAR integrates independent research and development, production, sales and service. Being recognized as one of the leading brands in the industry, driven by innovation and a vision to "Connecting the World, Bridging the Future", we've built a legacy of empowering industries with safe, reliable equipment networking while pioneering advancements in industrial communication.

Relying on the rich technology and industry practice experience in the field of industrial communication, COME-STAR has built a series of products involving industrial internet communication, fieldbus transmission, industrial fiber optic access, industrial network communication, and industrial automation, industrial computers, and equipment operating systems, industrial network operation platforms etc, to help industrial spot field data security interconnection.

Currently, COME-STAR boasts a global marketing network, catering to tens of thousands of customers worldwide. With over ten million units of connected products, COME-STAR offers efficient and professional customer service, aiding in product selection, technical support, and streamlined order



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HONOR AND CORE TECHNOLOGY

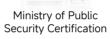






















FC.

Time Sensitive Networking Powered by



IEEE 1588 (PTP)



(E)



EAC



Rail Transit Industry-Environment/EMC Testing



CE/FCC/RoHS



Anticorrosion Inspection

Military Equipment-Salt Spray Detection









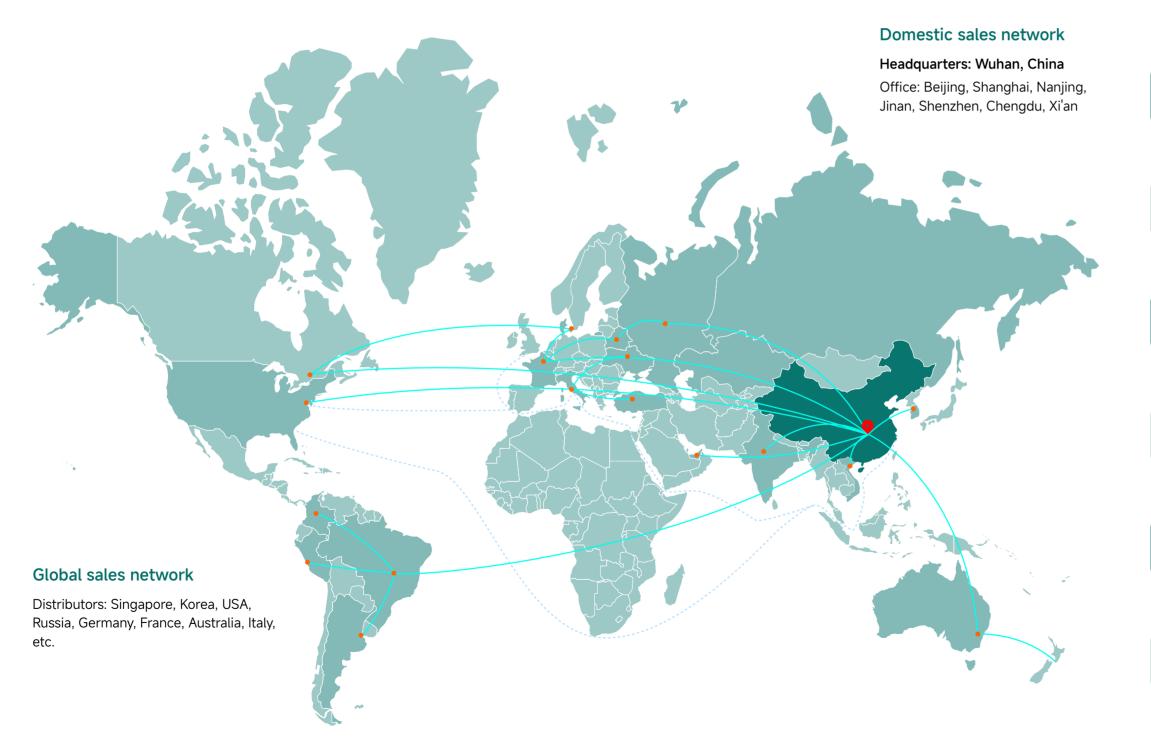








SALES NETWORK



Presale

Determine the software/hardware solution suitable for the user.

Provide hardware platform testing close to user requirements.

7*24H technical support

Product selection and project application design

Pointed engineerfor key client and project

After sale

Principle design

Develop R&D plans according to user needs Internal closed feasibility test

Identify key technologies and key component

Engineering testing and design reviews Adopt reasonable suggestions from users

Engineering

Trial production

Small batch trial production
Guarantee the function and performance of
the product

Samples are delivered to users for testing The engineers conduct re-testing and modification and adjustment

User test

WHY CHOOSE US

Global Market Presence

commitment to excellence.

Establishing a global presence, we serve a wide customer base and hold a significant market

share. Our long-term partnerships with renowned

companies and operators underscore our

R&D Strength Customized Service OEM & ODM service are available for large projects! Our skilled and experienced R&D team boasts strong capabilities in independent research and innovation. **Turnkey Solution Product Quality Assurance** We prioritize product quality and reliability. Utilizing Deliver complete communication equipment high-quality raw materials and components, our solutions encompassing switches, routers, optical products undergo rigorous testing and quality communication equipment, and more, alongside SIX ADVANTAGES related software and services. control measures. With over 100 stringent tests, we ensure the utmost reliability and stability in our offerings

006

Fast Response

support services.

We've established professional pre-sales and after-

sales teams with a globalized sales network and

channels. This setup allows us to provide customers

with convenient and quick sales and technical



CATALOG

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INDUSTRIAL ETHERNET SWITCH

ETHERNET SWITCH				
	Layer 3 Core Switch			
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SCOM8052GX-4XGF-48GT · · · · · · · · · · · · · · · · · · ·	
SCOM8036GX-4XGF-24GF-8GT · · · · · · · · · · · · · · · · · · ·	
SCOM8032GX-8XGF-24GT · · · · · · · · · · · · · · · · · · ·	
SCOM8030GX-6XGF-16GF-8GC · · · · · · · · · · · · · · · · · · ·	

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CISCOM8028GX-4XGF-16GF-8GC · · · · · · · · · · · · · · · · · · ·	015
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CISCOM8220G-4GF-16GT · · · · · · · · · · · · · · · · · · ·	017
CISCOM8220GX-4XGF-8GF-8GT · · · · · · · · · · · · · · · · · · ·	017

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CISCOM7028G-4GF-8GC-16GT
CISCOM7028G-12GF-8GC-8GT
CISCOM7020G-4GC-16GT
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CISCOM7220G-4GF-16GT
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Managed Industrial PoE Switch

CISCOM8028GP·····	. 03
CISCOM7028GP·····	
CISCOM7212GP······	
CISCOM7210GP······	
USCOM/210GP	. 03
Ummanaged Industrial PoE Switch	
CIEN3210GP-2GF-8GTPoE · · · · · · · · · · · · · · · · · · ·	. กร
CIEN3206GP-2GF-4GTPoE · · · · · · · · · · · · · · · · · · ·	
CIEN3205GP-GF-4GTP0E · · · · · · · · · · · · · · · · · · ·	
CIEN32U3GP-GF-4G1P0E	. 03
Industrial Fiber Optic Converter	
CT8110-F · · · · · · · · · · · · · · · · · · ·	. 02
CT3110-GF · · · · · · · · · · · · · · · · · · ·	
CIEN1203-F	
CIEN1203G-GF-2GT · · · · · · · · · · · · · · · · · · ·	. 03
VDSL Ethernet Extender	
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Layer 3 Core Switch			
Model	CISCOM8056GX-8XGF-48GT	CISCOM8052GX-4XGF-48GT	CISCOM8036GX-4XGF-24GF-8GT
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Port Number	56	52	36
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	48	48	8
100M fiber port	-	-	-
1000M fiber port	-	-	24
100 CED : 61	0		

10G SFP+ fiber port	8	4	4
Gigabit combo port	-	-	-
Power			
Power input	AC/DC220V	AC/DC220V	DC18V-72V, AC/DC220V
Consumption	<80W@AC220V	<63W@AC220V	<48W@DC24V <48W@DC48V <50W@AC220
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Rack Mount
Dimension (L)*(W)*(H) mm	483*44*340	482.6*44*315	482.6*44*315
Switching Performance			
Switching bandwidth	440Gbps	180Gbps	180Gbps
MAC table	64K	32K	32K
Routing entries	3K	3K	3K
Basic Function			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
IGMPv1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP/RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	Support	Support	Support
Multicast routing	Support	Support	Support
VRRP	Support	Support	Support
Management			
SNMPv1/v2c/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	-	-
GMRP	Support	-	-
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support

Industrial Ethernet Switch

Layer 3 Core Switch				
Model	CISCOM8032GX-8XGF-24GT	CISCOM8030GX-6XGF-16GF-8GC	CISCOM8028GX-4XGF-16GF-8	
)*)	
Port Number	32	30	28	
10/100 RJ45 port	-	-	-	
10/100/1000 RJ45 port	24	-	-	
100M fiber port	-	-	-	
1000M fiber port	-	16	16	
10G SFP+ fiber port	-	6	4	
Gigabit combo port	8	8	8	
Power		<u> </u>		
	1005 0/01/50/01 \P 0100 7001	2010 7014 1005 044412 0440 7704	D 010 - 701/ A 005 - 01 A 1/1 D 0110 - 770	
Power input Consumption	AC85-260V (50/60Hz)/DC100~380V <45W@AC220V	DC18-72V , AC85-264V/DC110-370V <47W@DC24V <46W@DC48V	DC18~72V, AC85~264V/DC110~370	
Working Environment		<48W@AC220V		
	-40°C 17F°C	-40°C 175°C	-40°C ~+70°C	
Operating temperature	-40°C ~+75°C 5%~95% (non-condensing)	-40°C ~+75°C 5%~95% (non-condensing)	-40°C ~+/0°C 5%~95% (non-condensing)	
Ambient hurnicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical Parameter				
nstallation	Rack Mount	Rack Mount	Rack Mount	
Dimension (L)*(W)*(H) mm	483*44*340	482.6*44*315	482.6*44*315	
Switching Performance				
Switching bandwidth	440Gbps	180Gbps	128Gbps	
MAC table	64K	32K	16K	
Routing entries	3K	1024	512	
Basic Function				
Qos/Vlan	Support	Support	Support	
Port Static Trunk/LACP	Support	Support	Support	
IGMPv1/v2/v3 multicast	Support	Support	Support	
BSP	Support	Support	Support	
	заррых	заррых	Заррыт	
Redundancy Protocol				
MW-Ring	Support	Support	Support	
ERPS/EAPS	Support	Support	Support	
MST/RSTP/STP	Support	Support	Support	
Layer 3 Software Property	•			
Layer 3 routing	Support	Support	Support	
Multicast routing	Support	Support	Support	
VRRP	Support	Support	Support	
Management				
SNMPv1/v2c/v3	Support	Support	Support	
LLDP	Support	Support	Support	
DHCP	Support	Support	Support	
RMON	Support	Support	Support	
GVRP	Support	-	Support	
GMRP	Support	-	Support	
Device management	Support	Support	Support	
Security				
802.1X	Support	Support	Support	
HTTPS/SSL	Support	Support	Support	
Port security binding	Support	Support	Support	
ACL	Support	Support	Support	



Layer 3 Core Switch			
Model	CISCOM8028GX-4XGF-8GC-16GT	CISCOM8028GX-4XGF-24GT	CISCOM8028GX-4XGF-8GT-16
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Port Number	28	28	28
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	-	24	8
100M fiber port	16	-	16
1000M fiber port	-	-	-
10G SFP+ fiber port	4	4	4
Gigabit combo port	8	-	-
Power			
Power input	DC18~72V, AC85~264V/DC110~370V	DC18~72V, AC85~264V/DC110~370V	AC85~264V/DC110~370V
Consumption	<30W@AC220V	<22W@DC4V <22W@DC4V <22W@DC48V <22W@AC220V	<29W@AC220V
Working Environment			
Operatng temperature	-40°C ~+70°C	-40°C ~+75°C	-40°C ~+75°C
Ambient hurnicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
,	576 7576 (Horr-condensing)	376 7376 (Horr-condensing)	3/6 73/6 (Horr-condensing)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Rack Mount
Dimension (L)*(W)*(H) mm	482.6*44*315	482.6*44*28	482.6*44*315
Switching Performance			
Switching bandwidth	128Gbps	128Gbps	128Gbps
MAC table	16K	16K	16K
Routing entries	512	768	512
Basic Function			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
IGMPv1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol	2.566.2.1		20,000
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MST/RSTP/STP	Support	Support	Support
Layer 3 Software Property	4		
Layer 3 routing	Support	Support	Support
Multicast routing	Support	Support	Support
VRRP	Support	Support	Support
Management			
SNMPv1/v2c/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Model	CISCOM8020G-4GF-16GT	CISCOM8220G-4GF-16GT	CISCOM8220GX-4XGF-8GF-8
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		生	
Port Number	20	20	20
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	16	16	8
100M fiber port	-	-	-
1000M fiber port	4	4	8
10G SFP+ fiber port	-	-	4
Gigabit combo port	-	-	-
Power			
Power input	AC85~264V/DC110~370V	DC18~36V, DC36~72V, AC85~264V/DC110~370V	DC12~48V/AD220
Consumption	<15W@AC220V	<15W@DC24V	<22W@DC12V <22W@AC220V
Working Environment			
Operating temperature	-40°C ~+70°C	'-40°C ~+70°C	'−40°C ~+75°C
Ambient hurnicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	Rack Mount	Din Rail	Din Rail
Dimension (L)*(W)*(H) mm	482.6*44*210	156*85*128.4	160*82.5*128
Switching Performance			
Switching bandwidth	128Gbps	128Gbps	128Gbps
MAC table	16K	16K	16K
Routing entries	512	512	512
Basic Function			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
IGMPv1/v2/v3 multicast	Support	Support	Support
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MST/RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	Support	Support	Support
Multicast routing	Support	Support	Support
VRRP	Support	Support	Support
Management			
SNMPv1/v2c/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support



Layer 2 Managed Industrial Ethernet Switch CISCOM7028GX-4XGF-16GF-8GC CISCOM7028GX-4XGF-8GC-16GT CISCOM7028G-4GC-24GT

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Port Number	28	28	28
10/100 RJ45 port	20	20	20
·	1	16	24
10/100/1000 RJ45 port 100M fiber port		10	<u>Z</u> 4
1000M fiber port	16	-	_
10G SFP+ fiber port	4	4	_
Gigabit combo port	8	8	4
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Power			
Power input	DC18~72V, AC85~264V/DC110~370V	DC18~72V, AC85~264V/DC110~370V	DC18~72V, AC85~264V/DC110~370V
Consumption	<40W@AC220V	<30W@AC220V	<22W@DC24V <22W@DC48V <24W@AC220V
Working Environment			
Operating temperature	-40°C ~+70°C	-40°C ~+70°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	Rock Mount	Rock Mount	Rock Mount
Dimension (L)*(W)*(H) mm	482.6*44*315	482.6*44*315	482.6*44*210
Switching Performance			
Switching bandwidth	128Gbps	128Gbps	56Gbps
MAC table	16K	16K	8K
IGMP group	Support	Support	Support
Basic Function	Зарроге	Саррот	Зарроге
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
IGMPv1/v2/v3 multicast BSP	Support	Support	Cumpert
	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP/RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	-	-	-
Multicast routing	-	-	-
VRRP	-	-	-
Management			
SNMPv1/v2c/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch				
Model	CISCOM7028-4GC-0/4/8/16F	CISCOM7028-4GF-24F	CISCOM7028G-4GF-8GC-16G	
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Port Number	28	28	28	
0/100 RJ45 port	24/20/16/8	-	-	
0/100/1000 RJ45 port	-	-	16	
00M fiber port	0/4/8/16	24	-	
1000M fiber port	-	4	4	
0G SFP+ fiber port	-	-	-	
Gigabit combo port	4	-	8	
Power				
Power input	DC18~72V, AC85~264V/DC110~370V	AC85~264V/DC110~370V	DC18~36V; DC36~72V AC85~264V/DC110~370V	
	@AC220V: <15W		<28W@DC24V	
Consumption	@DC48V: <12W	<40W	<27W@DC48V <30W@AC220V	
Working Environment				
Operating temperature	-40°C ~+75°C	-40°C ~+70°C	-40°C ~+75°C	
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical Parameter				
nstallation	Rock Mount	Rock Mount	Rock Mount	
Dimension (L)*(W)*(H) mm	482.6*44*210	482.6*44*315	482.6*44*210	
Switching Performance				
Switching bandwidth	12.8Gbps	12.8Gbps	56Gbps	
MAC table	12.8Gbps 8K	12.8GDps 8K	8K	
GMP group	Support	Support	Support	
Basic Function	- Spiper -	25/22.1		
Qos/Vlan	Support	Support	Support	
Port Static Trunk/LACP	Support	Support	Support	
GMPv1/v2/v3 multicast	Support	Support	Support -	
SSP	Support	Support	Support	
	оцироп	Заррыг	Заррыт	
Redundancy Protocol	_	_	_	
/W-Ring	Support	Support	Support	
ERPS/EAPS	Support	Support	Support	
MSTP/RSTP/STP	Support	Support	Support	
_ayer 3 Software Property				
ayer 3 routing	-	-	-	
Aulticast routing	-	-	-	
/RRP	-	-	-	
Management				
SNMPv1/v2c/v3	Support	Support	Support	
LDP	Support	Support	Support	
OHCP	Support	Support	-	
RMON	Support	Support	Support	
GVRP	Support	Support	-	
GMRP	Support	Support	-	
Device management	Support	Support	Support	
Security				
802.1X	Support	Support	Support	
HTTPS/SSL	Support	Support	Support	
Port security binding	Support	Support	Support	
ACL	Support	Support	Support	
PADII IS	Support	Support	Support	

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RADIUS



Model	CISCOM7028G-12GF-8GC-8GT	CISCOM7020G-4GC-16GT	CISCOM7214GX-2XGF-4GF-8G
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Deat Newshere	20	20	
Port Number	28	20	14
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	8	16	8
IOOM fiber port	-	-	-
1000M fiber port	12	-	4
IOG SFP+ fiber port	-	-	2
Gigabit combo port	8	4	-
Power			
Power input	AC85~264V/DC110~370V	AC85~264V/DC110~370V	DC12~48V/DC36~72V AC85~264V/DC110~370V
Consumption	<35W@AC220V	<20W@AC220V	<12W
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+85°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
nstallation	Rock Mount	Rock Mount	DIN Rail
Dimension (L)*(W)*(H) mm	482.6*44*210	482.6*44*210	156*72*120
Switching Performance			
Switching bandwidth	56Gbps	56Gbps	64Gbps
MAC table	8K	8K	16K
GMP group	Support	Support	_
Basic Function			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
GMPv1/v2/v3 multicast	- -	-	- -
BSP	Support	Support	Support
Redundancy Protocol	- Spipe :	Сорран	55,55
MW-Ring	Support	Support	Support
ERPS/EAPS		Support	Support
MSTP/RSTP/STP	Support Support	Support	Support
_ayer 3 Software Property	•	Support	Support
ayer 3 routing	_	-	-
Multicast routing	-	-	_
/RRP	-	-	-
Management			
SNMPv1/v2c/v3	Support	Support	Support
LDP	Support	Support	Support
DHCP	-	-	-
RMON	Support	Support	Support
GVRP	-	-	-
GMRP	-	-	-
Device management	Support	Support	Support
Security			
302.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Model	CISCOM7220G-4GF-16GT	CISCOM7212G-4GF-8GT	CISCOM7220-4GF
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		!	
Port Number	20	12	20
10/100 RJ45 port	-	-	16
10/100/1000 RJ45 port	16	8	-
100M fiber port	-	-	-
1000M fiber port	4	4	4
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V AC85~264V	DC 9~60V/AD220	DC9~60V AC85~264V/DC110~370V
Consumption	<16W@DC24V	<11W@DC24V <12W@AC220V	<12W@DC24V
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	160*74*122	160*58*122	160*74*122
Switching Performance			
Switching bandwidth	56Gbps	56Gbps	12.8Gbps
MAC table	8K	8K	8K
IGMP group	Support	Support	Support
Basic Function			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
GMPv1/v2/v3 multicast	-	-	-
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP/RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	-	-	-
Multicast routing	-	-	-
VRRP	-	-	-
Management			
SNMPv1/v2c/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	-	-	-
RMON	Support	Support	Support
GVRP	-		-
GMRP	-	-	-
Device management	Support	Support	Support
Security			
B02.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support



Layer 2 Managed Industrial Ethernet Switch				
Model	CISCOM7220-4GF-4F	CISCOM7220-4GF-8F	CISCOM7210-2GF	
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	B			
	B			
Port Number	20	20	10	
10/100 RJ45 port	12	8	8	
10/100/1000 RJ45 port	-	-	-	
100M fiber port	4	8	-	
1000M fiber port	4	4	2	
10G SFP+ fiber port	-	-	-	
Gigabit combo port	-	-	-	
Power				
	DC9~18V/DC18~36V	DC9~18V/DC18~36V		
Power input	DC36~72V	DC36~72V	DC9~60V AC85~264V/DC110~370V	
	AC85~264V/DC110~370V	AC85~264V/DC110~370V		
Consumption	<14W@DC24V	<16W@DC24V	<6W@DC24V	
Working Environment				
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C	
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical Parameter				
·	DIN Rail	DIN Rail	DIN Rail	
Installation Dimension (L)*(W)*(H) mm	DIN RAIL 160*74*122	160*74*122	140*54*110	
	160°74°122	160 74 122	140.54.110	
Switching Performance				
Switching bandwidth	12.8Gbps	12.8Gbps	12.8Gbps	
MAC table	8K	8K	8K	
GMP group	Support	Support	Support	
Basic Function				
Qos/Vlan	Support	Support	Support	
Port Static Trunk/LACP	Support	Support	Support	
GMPv1/v2/v3 multicast	-	-	-	
BSP	Support	Support	Support	
Redundancy Protocol				
MW-Ring	Support	Support	Support	
ERPS/EAPS	Support	Support	Support	
MSTP/RSTP/STP	Support	Support	Support	
Layer 3 Software Property				
_ayer 3 routing	-	-	-	
Multicast routing	-	-	-	
VRRP	-	-	-	
Management				
SNMPv1/v2c/v3	Support	Support	Support	
LLDP	Support	Support	Support	
DHCP	Support -	Support	Support -	
RMON	Support	Support	Cupport	
GVRP	Support -	Support	Support	
SMRP	-	-	-	
Device management	Support	Support	Support	
Security				
802.1X	Support	Support	Support	
HTTPS/SSL	Support	Support	Support	
Port security binding	Support	Support	Support	
ACL	Support	Support	Support	
RADIUS	Support	Support	Support	

Industrial Ethernet Switch

Model	CISCOM7210-2GF-2F	CISCOM7209-3GF	CISCOM7210G-2GF-8GT
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Port Number	10	9	10
10/100 RJ45 port	6	6	-
10/100/1000 RJ45 port	-	-	8
100M fiber port	2	-	-
1000M fiber port	2	3	2
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V	DC9~60V	DC9~60V
		AC85~264V/DC110~370V	AC85~264V/DC110~370V
Consumption	<6W@DC12V	<6W@DC24V	<10W@DC24V
Working Environment			
Operating temperature	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	160*58*122	140*54*110	160*58*122
Switching Performance			
Switching bandwidth	5.6Gbps	7.6Gbps	20Gbps
MAC table	8K	8K	8K
GMP group	Support	Support	Support
Basic Function			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
IGMPv1/v2/v3 multicast	-	-	-
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP/RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	-	-	-
Multicast routing	-	-	-
VRRP	-	-	-
Management			
SNMPv1/v2c/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	-	-	-
RMON	Support	Support	Support
GVRP	-	-	-
GMRP	-	-	-
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support

Model	CISCOM7206G-2GF-4GT	CISCOM6024	CISCOM6024-4F
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	I B. 1		
Port Number	6	24	24
0/100 RJ45 port	-	24	20
0/100/1000 RJ45 port	4	-	-
00M fiber port	-	-	4
000M fiber port	2	-	-
0G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V AC85~264V/DC110~370V	AC85~264V/DC110~370V	AC85~264V/DC110~370V DC18~75V
Consumption	<5.5W@DC24V	<9W@AC220V	<16.5W@AC220V
Vorking Environment			
perating temperature	-40°C ~+85°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
nstallation	DIN Rail	Rock Mount	Rock Mount
Dimension (L)*(W)*(H) mm	140*54*110	482.6*44*210	482.6*44*210
Switching Performance			
Switching bandwidth	14Gbps	12.8Gbps	12.8Gbps
1AC table	2K	8K	8K
GMP group	-	Support	Support
Basic Function			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
GMPv1/v2/v3 multicast	-	-	-
3SP	Support	Support	Support
Redundancy Protocol			
1W-Ring	Support	Support	Support
ERPS/EAPS	-	Support	Support
MSTP/RSTP/STP	Support	Support	Support
ayer 3 Software Property			
ayer 3 routing	-	-	
Multicast routing	-	-	-
/RRP	-	-	-
/anagement			
SNMPv1/v2c/v3		Support	Support
LDP	-	Support	Support
HCP	-	-	-
RMON	Support	Support	Support
SVRP	-	-	-
SMRP	-	-	-
Device management	Support	Support	Support
Security			
02.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support

Industrial Ethernet Switch

Switching Performance Switching pandwidth 12.9Gbps 12.10Gbps 12.10Gbps 12.8Gbps 4AC table 9K 10K 8K SMP group Support Support Support Support Support 33asic Function 20st/Vian Support Supp	Model	CISCOM6024-8F	CISCOM6024-16F	CISCOM6026-2F
Cort Number				3,333,13323 2
2000 RMS port			;	; ;
0.00000 0.45 port	Port Number	24	24	26
0n0000000 848 port -	0/100 RJ45 port	16	8	24
000M Rise port -	·	-	-	-
	00M fiber port	8	16	2
	000M fiber port	-	-	-
	0G SFP+ fiber port	-	-	-
ACBS-264VIDC110-370V	Gigabit combo port	-	-	-
AC85-264V/DC110-370V DC18-787V DC18-	Power			
DCIS-75V		AC85~264V/DC110~370V	AC85~264V/DC110~370V	
Norking Environment A0°C +75°C -40°C +75°C <td>Power input</td> <td></td> <td></td> <td>AC85~264V/DC110~370V</td>	Power input			AC85~264V/DC110~370V
Spending temperature	Consumption	<16.5W@AC220V	<16.5W@AC220V	<9W@AC220V
Sw-95% (non-condensing) S%-95% (non-cond	Working Environment			
Inhibient humicrity 5%-95% (non-condensing) 5%-95% (non-condensing) Physical Parameter Institution Rock Mount Rock Mount Rock Mount Institution Rock Mount Rock Mount Institution Rock Mount Rock Mount Institution Switching Performance Witching Performance Witch	Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
		5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
	Physical Parameter			
Switching Performance		Pools Mount	Dock Mount	Pack Mount
Switching Performance Switching pandwidth 12.9Gbps 12.10Gbps 12.10Gbps 12.6Gbps 4AC table 9K 10K 8K 3K 3MP group Support Support Support Support Support 33asic Function SoarVian Support Sup				
Switching bandwidth 12,9Gbps 12,10Gbps 12,10Gbps 12,10Gbps 13,10Gk 8K 3MP group Support Suppor		402.0 44 210	402.0 44 210	402.0 44 210
MAC table 9K 10K 8K SMP group Support Support Support Support Sasic Function Sasic Function Socvilan Support Suppor				
Support Support Support Support Support Support	· ·	·	·	·
Support Supp				
Cos/Vian Support Support Support Port Static Trunk/LACP Support Support Support GMPVIV2/v3 multicast - - - ASSP Support Support Support Redundancy Protocol WMY-Ring Support Support Support MMY-Ring Support Support Support MRPS/EAPS Support Support Support MSTP/RSTP/STP Support Support Support MSTP/RSTP/STP Support Support Support Austrational Property - - - Auger 3 routing - - - - Authorises routing Support Support Support		Support	Support	Support
Support Supp	Basic Function			
Support Supp	Qos/Vlan	Support	Support	Support
SSP Support Support Support Redundancy Protocol Adv. Filing Support Support Support MRPS/EAPS Support Support Support MSTP/RSTP/STP Support Support Support Layer 3 Software Property Support Support - Layer 3 routing - - - - /RRP - - - - Management Support Support Support LDP Support Support Support DHCP - - - DEWIND Support Support Support SMRP - - - DEWIND Support Support Support SECCURITY Support Support Suppo	Port Static Trunk/LACP	Support	Support	Support
Redundancy Protocol #W-Ring Support Support Support Support Support #REPS/EAPS Support Support Support Support ###################################		-	-	-
Support Suppor	BSP	Support	Support	Support
REPS/EAPS Support Supp	Redundancy Protocol			
Support Support Support Support Support Support	MW-Ring	Support	Support	Support
Layer 3 Software Property Layer 3 routing	ERPS/EAPS	Support	Support	Support
Aulticast routing	MSTP/RSTP/STP	Support	Support	Support
Adulticast routing	ayer 3 Software Property			
Authorized		-	-	-
Anagement Support Su		-	-	-
SNMPvI/v2c/v3 Support Support Support LLDP Support Support Support DHCP - - - RMON Support Support Support SVRP - - - SMRP - - - Device management Support Support Support Security Support Support Support FOTT Security binding Support Support Support VCL Support Support Support	<u> </u>	-	-	-
SNMPvI/v2c/v3 Support Support Support LLDP Support Support Support OHCP - - - RMON Support Support Support SVRP - - - SMRP - - - Device management Support Support Support Security Support Support Support FORT Security binding Support Support Support VCL Support Support Support				
Support Support Support Support		See .	Sun i	2
Column				
RMON Support Support Support 6VRP - - - 5MRP - - - 5Very ceremanagement Support Support Support 6Cecurity Support Support Support 4TTPS/SSL Support Support Support Fort security binding Support Support Support VCL Support Support Support		Support	Support	Support
SWRP		Support	Support	Support
SMRP		Support -	Support	- Support
Device management Support Support Support Security SUZIX Support Sup		-	-	-
Security S02.1X Support Support Support HTTPS/SSL Support Support Support Port security binding Support Support Support MCL Support Support Support				
Support Suppor	-	очрые	σαρροιτ	Support
ATTPS/SSL Support Support Support Support Support Support CL Support S				
Port security binding Support Support Support Support Support Support				
NCL Support Support Support				
RADIUS Support Support Support Support	ACL RADIUS	Support Support	Support Support	



Layer 2 Managed Industrial Ethernet Switch			
Model	CISCOM6220-4F	CISCOM6218-2F	CISCOM6216
Port Number	20	18	16
0/100 RJ45 port	16	16	16
0/100/1000 RJ45 port	-	-	-
00M fiber port	4	2	-
000M fiber port	-	-	-
0G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V	DC9~60V	DC9~60V
Consumption	AC85~264V/DC110~370V <12W@DC24V	AC85~264V/DC110~370V <10W@DC24V	AC85~264V/DC110~370V <8W@DC24V
	\12VV&DC24V	\10VV@DC24V	\0\V\@D\CZ4V
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
nstallation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	160*74*122	160*74*122	160*74*122
Switching Performance			
Switching bandwidth	12.8Gbps	12.8Gbps	12.8Gbps
MAC table	8K	8K	8K
GMP group	Support	Support	Support
Basic Function			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
GMPv1/v2/v3 multicast	-	-	-
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP/RSTP/STP	Support	Support	Support
_ayer 3 Software Property			
_ayer 3 routing	-	-	-
Multicast routing	-	-	-
/RRP	-	-	-
Management			
	Cunart	Cumart	Cunnart
SNMPv1/v2c/v3 LLDP	Support Support	Support Support	Support Support
DHCP	-	-	- Support
RMON	Support	Support	Support
GVRP	-	-	-
GMRP	-	-	-
Device management	Support	Support	Support
Security			
302.1X	Support	Support	Support
HTTPS/SSL	Support Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
		Support	Support

Industrial Ethernet Switch

Model	CISCOM6208	CISCOM6208-2F	CISCOM6208-4F
		1	
	B	B	æ
Port Number	8	8	8
10/100 RJ45 port	8	6	4
10/100/1000 RJ45 port	-	-	-
100M fiber port	-	2	4
1000M fiber port	-	-	-
IOG SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
	DC9~60V	DC9~60V	DC9~60V
Power input	AC85~264V/DC110~370V	AC85~264V/DC110~370V	AC85~264V/DC110~370V
Consumption	<8W@DC25V	<8W@DC26V	<6W@DC26V
Working Environment			
Operating temperature	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+85°C
Ambient humicrty	5%~95% (non-condensing)	5%~96% (non-condensing)	5%~96% (non-condensing)
Physical Parameter		5	3
	DINI De la	DINI Dell	DIN Dell
nstallation Dimension (L)*(W)*(H) mm	DIN Rail 140*54*110	DIN Rail 140*54*110	DIN Rail 140*54*110
	140 54 110	140 54 110	140 54 110
Switching Performance			
Switching bandwidth	2Gbps	2Gbps	2Gbps
MAC table	2K	2K	2K
GMP group	Support	Support	Support
Basic Function			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
GMPv1/v2/v3 multicast	-	-	-
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP/RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	_	-	_
Multicast routing	-	-	-
VRRP	-	_	-
Management			
		_	
SNMPv1/v2c/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	S	Comment	-
RMON	Support	Support	Support
GVRP	-	-	-
GMRP		Support	
Device management	Support	Support	Support
Security			
B02.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support



4odel	CIEN5208	CIEN5208-2F	CIEN6208-4F
iouct	CILITOZOO	CILINOZOU ZI	CILITOZOO 41
		<u> </u>	趟
	H	E	<u> </u>
Port Number	8	8	8
0/100 RJ45 port	8	6	4
0/100/1000 RJ45 port	-	-	-
00M fiber port	-	2	4
000M fiber port	-	-	-
OG SFP+ fiber port	-	-	-
igabit combo port	-	-	-
ower			
ower input	DC9~60V AC85~264V/DC110~370V	DC9~60V AC85~264V/DC110~370V	DC9~60V AD220
onsumption	<2W@DC12V<2W@AC220V	<3W@DC12V	<6W@DC24V
·	-ZVV@DC1ZV -ZVV@ACZZUV	<3W@AC220V	\0VV@DC24V
Vorking Environment			
perating temperature	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+85°C
mbient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
nstallation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	140*54*110	140*54*110	140*54*110
Switching Performance			
witching bandwidth	1.8Gbps	1.8Gbps	2Gbps
MAC table	2K	2K	2K
GMP group	-	-	Support
Basic Function			
los/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
GMPv1/v2/v3 multicast	-	-	-
SSP	Support	Support	Support
Redundancy Protocol			
1W-Ring	Support	Support	Support
RPS/EAPS	Support	Support	Support
MSTP/RSTP/STP	Support	Support	Support
ayer 3 Software Property			
ayer 3 routing	-	-	-
Aulticast routing	-	-	-
RRP	-	-	-
/lanagement			
NMPv1/v2c/v3	-	-	Support
LDP	-	-	Support
OHCP MON	Support	Support	Cupport
MON	Support -	Support -	Support -
SMRP	-	-	-
Device management	Support	Support	Support
Security			
02.1X	Support	Support	Cupport
HTTPS/SSL	Support Support	Support Support	Support Support
Port security binding	Support	Support	Support
ACL	-	-	-
RADIUS	Support	Support	

Industrial Ethernet Switch

Model	CISCOM7210GBP-2GTS-8GT	CISCOM7208BP-2GTS
viodet	CISCOM/2100BP-2015-601	CISCOM/200BP-2015
	F	
	₿	B
Port Number	10	8
0/100 RJ45 port	-	6
0/100/1000 RJ45 port	8	-
00M fiber port	-	-
000M fiber port	2	2
0G SFP+ fiber port	-	-
Gigabit combo port	-	-
Power		
Power input	DC12~48V	DC9~60V
Consumption	<12W@DC24V	<6W@DC24V
Working Environment		
Operating temperature	-40°C ~+75°C	-40°C ~+85°C
Ambient humicrty	5%-95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter		
nstallation	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	160*58*122	140*54*110
Switching Performance		
Switching bandwidth	20Gbps	7.6Gbps
MAC table	8K	8K
GMP group	Support	Support
Basic Function		
Qos/Vlan	Support	Support
Port Static Trunk/LACP	Support	Support
GMPv1/v2/v3 multicast	-	-
BSP	Support	Support
Redundancy Protocol		
MW-Ring	Support	Support
ERPS/EAPS	Support	Support
MSTP/RSTP/STP	Support	Support
Layer 3 Software Property		
_ayer 3 routing	-	-
Multicast routing	-	-
/RRP	-	-
Management		
SNMPv1/v2c/v3	Support	Support
LDP	Support	Support
DHCP	-	-
RMON	Support	Support
GVRP	-	-
GMRP	-	-
Device management	Support	Support
Security		
302.1X	Support	Support
HTTPS/SSL	Support	Support
Port security binding	Support	Support
ACL	Support	-
RADIUS	Support	Support



Layer 2 Managed Industrial Ethernet Switch			
Model	CIEN6208-2F	CIEN5205C	
Port Number	8	5	
10/100 RJ45 port	6	3/4	
10/100/1000 RJ45 port	-	-	
100M fiber port	2	2/1	
1000M fiber port	-	-	
10G SFP+ fiber port	-	-	
Gigabit combo port	-	-	
Power	DC9~60V		
Power input	AC85~264V/DC110~370V	DC9~60V	
Consumption	<5W@DC26V	<2.9W@DC24V (F) <3.7W@DC24V (2F)	
Working Environment		-0.7 TCDC2TV (21)	
Operating temperature	-40°C ~+85°C	-40°C ~+85°C	
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical Parameter			
Installation	DIN Rail	DIN Rail	
Dimension (L)*(W)*(H) mm	140*54*110	140*54*110	
Switching Performance			
Switching bandwidth	2Gbps	1.2Gbps	
MAC table	2K	2K	
IGMP group	Support	-	
Basic Function			
Qos/Vlan	Support	Support	
Port Static Trunk/LACP	Support	-	
GMPv1/v2/v3 multicast	-	-	
BSP	Support	Support	
Redundancy Protocol			
MW-Ring	Support	Support	
ERPS/EAPS	Support	-	
MSTP/RSTP/STP	Support	Support	
Data Interface			
RS232	-	Support	
RS485	-	Support	
CAN	_	Support	
Management			
SNMPv1/v2c/v3 LLDP	Support	-	
DHCP	Support -	-	
RMON	Support	Support	
GVRP	-	-	
GMRP	-	-	
Device management	Support	Support	
Security			
802.1X	Support	Support	
HTTPS/SSL	Support	Support	
Port security binding	Support	Support	
ACL	-	-	
RADIUS	Support	Support	

Industrial Ethernet Switch

Unmanaged Industrial Ethernet Switch				
Model	CIEN3028G-4GC-24GT	CIEN3020G-4GC-16GT	CIEN3028-4GC-0/4/8/16F	CIEN3210G-2GF-8G
			,	
	= ### ### ### #* **		- HH HH HH HH 🚉	8
Port Number	28	20	28	10
10/100 RJ45 port	-	-	24/20/16/8	-
10/100/1000 RJ45 port	24	16	-	8
100M fiber port	-	-	0/4/8/16	-
1000M fiber port	-	-	-	2
10G SFP+ fiber port	-	-	-	-
Gigabit combo port	4	4	4	-
Power				
Power input	AC85~264V, DC110~370V	AC85~264V, DC110~370V	AC/DC220V	DC9~60V, AD220
Consumption	<24W@AC220V	<24W@AC220V	<15W(MAX)	<6W@DC24V
Working Environment			21.0	
	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+85°C
Operating temperature Ambient humicrty	-40°C ~+/5°C 5%~95% (non-condensing)	-40°C ~+75°C 5%~95% (non-condensing)	-40°C ~+75°C 5%~95% (non-condensing)	-40°C ~+85°C 5%~95% (non-condensin
· · · · · · · · · · · · · · · · · · ·	5% 75% (non-condensing)	5% 45% (Horr-condensing)	5% 75% (Horr-condensing)	5%-45% (Horr-condensin
Physical Parameter				
Installation	Rock Mount	Rock Mount	Rock Mount	DIN Rail
Dimension (L)*(W)*(H) mm	482.6*44*210	482.6*44*210	482.6*44*210	140*54*110
Switching Performance				
Switching bandwidth	56Gbps	56Gbps	12.8Gbps	20Gbps
MAC table	8K	8K	8K	4K
IGMP group	-	-	-	-
Model	CIEN3208G-8GT	CIEN3206G-2GF-4GT	CIEN3205G-5GT	CIEN3205G-GF-4G
	niš.	44	4	nik
	B	3)	Ċ.	Б
	IBI			В
		B		L.
Port Number	8	6	5	5
10/100 RJ45 port	-	-	-	-
10/100/1000 RJ45 port	8	4	5	4
100M fiber port	-	-	-	-
1000M fiber port	-	2	-	1
10G SFP+ fiber port	-	-	-	-
Gigabit combo port	-	-	-	-
Gigabit combo port Power	-	-	•	
	- DC9~60V/AC85~264V, DC110~370V	- DC9-60V/AC85-264V, DC110-370V	- DC9~60V	- AC85~264V, DC110~370\
Power	- DC9-60V/AC85-264V, DC110-370V <2.5W@DC24V	- DC9-60V/AC85-264V, DC110-370V <3.5W@DC24V	- DC9-60V <1.8W@DC12V	- AC85~264V, DC110~370\ <2.5W@DC12V
Power Power input				
Power Power input Consumption				
Power Power input Consumption Working Environment	<2.5W@DC24V	<3.5W@DC24V	<1.8W@DC12V	<2.5W@DC12V -40°C ~+85°C
Power Power input Consumption Working Environment Operating temperature Ambient humicrty	<2.5W@DC24V -40°C ~+85°C	<3.5W@DC24V -40°C -+85°C	<1.8W@DC12V -40°C ~+85°C	<2.5W@DC12V -40°C ~+85°C
Power Power input Consumption Working Environment Operating temperature Ambient humicrty Physical Parameter	<2.5W@DC24V -40°C ~+85°C 5%-95% (non-condensing)	<3.5W@DC24V -40°C ~+85°C 5%~95% (non-condensing)	<1.8W@DC12V -40°C ~+85°C 5%~95% (non-condensing)	<2.5W@DC12V -40°C ~+85°C 5%-95% (non-condensin
Power Power input Consumption Working Environment Operating temperature Ambient humicrty Physical Parameter Installation	<2.5W@DC24V -40°C ~+85°C 5%-95% (non-condensing) DIN Rail	<3.5W@DC24V -40°C ~+85°C 5%~95% (non-condensing) DIN Rail	<1.8W@DC12V -40°C ~+85°C 5%~95% (non-condensing) DIN Rail	<2.5W@DC12V -40°C ~+85°C 5%-95% (non-condensin
Power Power input Consumption Working Environment Operating temperature Ambient humicrty Physical Parameter Installation Dimension (L)*(W)*(H) mm	<2.5W@DC24V -40°C ~+85°C 5%-95% (non-condensing)	<3.5W@DC24V -40°C ~+85°C 5%~95% (non-condensing)	<1.8W@DC12V -40°C ~+85°C 5%~95% (non-condensing)	<2.5W@DC12V -40°C ~+85°C 5%-95% (non-condensin
Power Power input Consumption Working Environment Operating temperature Ambient humicrty Physical Parameter Installation Dimension (L)*(W)*(H) mm Switching Performance	<2.5W@DC24V -40°C ~+85°C 5%-95% (non-condensing) DIN Rail 140*35*100	<3.5W@DC24V -40°C ~+85°C 5%~95% (non-condensing) DIN Rail 140*35*100	<1.8W@DC12V -40°C ~+85°C 5%~95% (non-condensing) DIN Rail 118*35*88	<2.5W@DC12V -40°C ~+85°C 5%-95% (non-condensin DIN Rail 118*35*88
Power Power input Consumption Working Environment Operating temperature Ambient humicrty Physical Parameter Installation Dimension (L)*(W)*(H) mm	<2.5W@DC24V -40°C ~+85°C 5%-95% (non-condensing) DIN Rail	<3.5W@DC24V -40°C ~+85°C 5%~95% (non-condensing) DIN Rail	<1.8W@DC12V -40°C ~+85°C 5%~95% (non-condensing) DIN Rail	-40°C ~+85°C 5%-95% (non-condensin DIN Rail



Physical Parameter Installation

Dimension (L)*(W)*(H) mm

Switching Performan

Switching bandwidth

MAC table

IGMP group

Industrial Ethernet Switch

Unmanaged Industrial Ethernet Switch				
Model	CIEN2210-2F	CIEN2210-8F	CIEN3220-4GF	
Port Number	10	10	20	
10/100 RJ45 port	8	2	16	
10/100/1000 RJ45 port	-	-	-	
100M fiber port	2	8	-	
1000M fiber port	-	-	4	
10G SFP+ fiber port	-	-	-	
Gigabit combo port	-	-	-	
Power				
Power input	AC/DC220V, DC12~48V	AC/DC220V, DC12~48V	AC/DC220V, DC9~60V	
Consumption	<3.5W@DC24V	<5.3W@DC24V	<12W(MAX)	
Working Environment				
Operating temperature	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+75°C	
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical Parameter				
Installation	DIN Rail	DIN Rail	DIN Rail	
Dimension (L)*(W)*(H) mm	144*54*110.4	144*54*110.4	160*74*122	
Switching Performance				
Switching bandwidth	2Gbps	2Gbps	12.8Gbps	
MAC table	8K	8K	8K	
IGMP group	-	-	-	
Model	CIEN2220-4F	CIEN2218-2F	CIEN2026-2F	

			; ;
Port Number	20	18	26
10/100 RJ45 port	16	16	24
10/100/1000 RJ45 port	-	-	-
100M fiber port	4	2	2
1000M fiber port	-	-	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V, AC85~264V/DC110~372V	DC9~60V, AC85~264V/DC110~371V	DC9~60V, AC85~264V/DC110~370V
Consumption	<9W@DC24V	<7W@DC24V	<8W@AC220V
Working Environment			
Operating temperature	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)

DIN Rail

160*74*122

12.8Gbps

Rack Mount

482.6*44.210

8.8Gbps

DIN Rail

160*74*122

12.8Gbps

Port Number 24 18 16 16 10 10 10 10 10 10	Unmanaged Industrial Ethernet Switch					
Port Number 24 18 16 16 16 16 16 1707007000 RJ45 port 24 16 16 16 16 1707007000 RJ45 port 2 - 2 - 1000M Riber port 3 - 2 - 2 - 1000M Riber port 4 - 2 - 2 - 1000M Riber port 5 - 2 - 2 - 1000M Riber port 5 - 2 - 2 - 1000M Riber port 6 - 2 - 3 - 1000M Riber port 7 - 3 - 3 - 1000M Riber port 7 - 3 - 3 - 1000M Riber port 8 - 3 - 3 - 3 - 1000M Riber port 9 - 3 - 3 - 3 - 1000M Riber port 9 - 3 - 3 - 3 - 1000M Riber port 9 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	Model	CIEN2024-0/4/8/16F	CIEN2018-2F	CIEN2016		
10/100 RJ45 port 24 16 16 16 10/100/100 RJ45 port		; ————————————————————————————————————	; (************** **********************) (************************************		
10/100 RJMS port 24 16 16 16 10/10/100/100 RJMS port	Port Number	24	18	16		
10100000 RJ45 port - - - - - - - - -						
100M fiber port - 2		-	-	-		
1000 MF fiber port	·	-	2	-		
10G SFP+ fiber port		-	-	-		
Power	·	-	-	-		
Power input	Gigabit combo port	-	-	-		
DC9-60V, AC85-264V/DC110-37IV DC9-60V, AC85-264V/DC110-37IV AD220V, DC18-72V						
Consumption <8/16.5/16.5/16.5/16.5/16.5/16.5/16.5/16.5		DC9~60V_AC85~264V/DC110~371V	DC9~60V_AC85~264V/DC110~370V	AD220V DC18~72V		
Working Environment Operating temperature -40°C → 75°C -40°C → 85°C						
Operating temperature -40°C -+75°C -40°C -+85°C -40°			5.1.5.1.5.2.5.	211,0 2.20		
Ambient humicrity 5%-95% (non-condensing) 5%-95% (non-condensing) 5%-95% (non-condensing) Physical Parameter Installation Rack Mount Rack Mount Rack Mount A82.6*44/210 482.6*44/210 482.6*44/210 482.6*44/210 482.6*44/210 Switching Performance Switching Pandwidth 8.8/12.8/12.8/12.8/12.8/12.8/12.8/12.8/1	•	400C +7E0C	4000 17500	4000 17500		
Physical Parameter						
Installation Rack Mount Rack Mount Rack Mount Rack Mount Bimension (U*W*(H) mm 482.6*44.2*10 482.6*	·	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)		
Dimension (L)*(W)*(H) mm 482.6*44.210 482.6*44*210 482.6*44*210 Switching Performance Switching bandwidth 8.8/12.8/12.8/12.8/19.8/19.8/19.8/19.8 8.86bps 8.86bps MAC table 8K 8K 8K 8K IGMP group - - - Model CIEN2216 CIEN2208 CIEN2208-F Port Number 16 8 8 10/100 RJ45 port 16 8 7 10/100/1000 RJ45 port - - - 100M fiber port - - 1 100M fiber port - - 1 100 SFP+ fiber port - - - 10G SFP+ fiber port - - - Power Power - - - Power - - - - Power - - - - - Power - - - - - 100 SFP+						
Switching Performance Switching bandwidth 8.8/12.8/12.8/12.8/12.8/12.8/12.8/12.8/1						
Switching bandwidth 8.8/12.8/12.8/12.8/12.8/12.8/12.8/12.8/1		482.6*44.210	482.6*44*210	482.6*44*210		
MAC table 8K 8K 8K 8K 8K 1GMP group	Switching Performance					
Model CIEN2216 CIEN2208 CIEN2208-F	Switching bandwidth	8.8/12.8/12.8/12.8Gbps	8.8Gbps	8.8Gbps		
Model CIEN2216 CIEN2208 CIEN2208-F Port Number 16 8 8 10/100 RJ45 port 16 8 7 10/100/1000 RJ45 port - - - 100M fiber port - - 1 1000M fiber port - - - 106 SFP+ fiber port - - - Gigabit combo port - - - Power Power input DC9-60V, AC85-264V/DC110-372V DC9-60V, AC85-264V/DC110-371V DC9-60V, AC85-264V/DC110-372V Consumption <3W@24V(MAX)	MAC table	8K	8K	8K		
Port Number 16 8 8 10/100 RJ45 port 16 8 7 10/100/1000 RJ45 port 16 8 7 10/100/1000 RJ45 port 1 100M fiber port 1 1000M fiber port 1 1000 SFP+ fiber port 1 106 SFP+ fiber port	IGMP group	-	-	-		
Port Number 16 8 8 10/100 RJ45 port 16 8 7 10/100/1000 RJ45 port 16 8 7 10/100/1000 RJ45 port 16 8 7 10/100/1000 RJ45 port 1	Model	CIEN2216	CIEN2208	CIEN2208-F		
10/100 RJ45 port 16 8 7 10/100/1000 RJ45 port			CHARLES.			
10/100/1000 RJ45 port	Port Number	16	8	8		
10/100/1000 RJ45 port	10/100 RJ45 port	16	8	7		
1000M fiber port	10/100/1000 RJ45 port	-	-	-		
10G SFP+ fiber port	100M fiber port	-	-	1		
Power - <td>1000M fiber port</td> <td>-</td> <td>-</td> <td>-</td>	1000M fiber port	-	-	-		
Power Power input DC9~60V, AC85~264V/DC110~372V DC9~60V, AC85~264V/DC110~371V DC9~60V, AC85~264V/DC110~371V Consumption <3W@24V(MAX)	10G SFP+ fiber port	-	-	-		
Power input DC9~60V, AC85~264V/DC110~372V DC9~60V, AC85~264V/DC110~371V DC9~60V, AC85~264V/DC110~371V Consumption <3W@24V(MAX)	Gigabit combo port	-	-	-		
Consumption <3W@24V(MAX) <1.8W@DC24V <5W@DC24V Working Environment -40°C ~+85°C -40°C ~+85°C -40°C ~+85°C -40°C ~+85°C	Power					
Consumption <3W@24V(MAX) <1.8W@DC24V <5W@DC24V Working Environment -40°C ~+85°C -40°C ~+85°C -40°C ~+85°C -40°C ~+85°C	Power input	DC9~60V, AC85~264V/DC110~372V	DC9~60V, AC85~264V/DC110~371V	DC9~60V, AC85~264V/DC110~371		
Working Environment -40°C ~+85°C -40°C ~+85°C -40°C ~+85°C	·					
Operating temperature -40°C ~+85°C -40°C ~+85°C -40°C ~+85°C	Working Environment					
		-40°€ ~+85°€	-40°C ~+85°C	-40°€ ~+85°€		
AUDIEU TUUTUU 5%~95% INON-CONDENSINOI 5%~95% INON-CONDENSINOI			5%~95% (non-condensing)			

DIN Rail

140*35*110

1.6Gbps

DIN Rail

140*54*110

1.6Gbps

032 033

Physical Parameter

Dimension (L)*(W)*(H) mm

Switching bandwidth

Switching Performance

Installation

MAC table IGMP group DIN Rail

160*74*122

4.8Gbps



Unmanaged Industrial Ethernet Switch				
Model	CIEN2208-2F	CIEN2208-4F	CIEN2208E	CIEN2206-2F
		B		
Port Number	8	8	8	4
10/100 RJ45 port	6	4	8	4
10/100/1000 RJ45 port	-	-	-	-
100M fiber port	2	4	-	2
1000M fiber port	-	-	-	-
10G SFP+ fiber port	-	-	-	-
Gigabit combo port	-	-	-	=
Power				
Power input	DC9~60V, AC85~264V/DC110~371V	AC/DC220V, DC9~60V	DC9~60V, AC85~264V/DC110~371V	DC9~60V, AC85~264V/DC110-
Consumption	<5W@DC24V	<5W@24V	<1.8W@DC24V	<2.5W@DC24V
Working Environment				
	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+85°C
Operating temperature Ambient humicrty	-40°C ~+85°C 5%~95% (non-condensing)	-40°C ~+85°C 5%~95% (non-condensing)	-40°C ~+85°C 5%~95% (non-condensing)	-40°C ~+85°C 5%~95% (non-condensing
,	5%-75% (Horl-condensing)	576-7576 (HUH-COHUERSING)	576-7576 (Hoff-condensing)	3/0°75/0 (HOH-COHURNSIN)
Physical Parameter				
Installation	DIN Rail	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	140*54*110	140*54*110	95*43*90.5	140*35*100
Switching Performance				
Switching bandwidth	1.6Gbps	1.6Gbps	1.6Gbps	1.6Gbps
MAC table	2K	2K	2K	2K
IGMP group				
Model	CIEN2205	CIEN2205-F	CIEN2204-2F	
		Ē	В	
Port Number	5	5	4	
10/100 RJ45 port	5	4	2	
10/100/1000 RJ45 port	-	-	-	
100M fiber port	-	1	2	
1000M fiber port	-	-	-	
10G SFP+ fiber port	-	-	-	
Gigabit combo port	-	-	-	
Power				
Power input	DC9~60V_AC85~264V/DC110~371V/D	0C9~60V_AC85~264V/DC110~371	V DC9~60V, AC85~264V/DC110~371V	
Consumption	<1.5W@DC24V	<1.8W@24V	<2.3W@DC24V	
			2.011.03.02.17	
Working Environment	4000 - 0500	4000 - 0500	4000 .0500	
Operating temperature	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+85°C	
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical Parameter				
Installation	DIN Rail	DIN Rail	DIN Rail	
Dimension (L)*(W)*(H) mm	118*35*88	118*35*88	118*35*88	
0 11 11 10 1				
Switching Performance				
Switching Performance Switching bandwidth	1Gbps	1Gbps	1Gbps	
	1Gbps 2K	1Gbps 2K	1Gbps 2K	

Industrial Ethernet Switch

Model	CISCOM8028GP	CISCOM7028GP	CISCOM7212GP	CISCOM7210GP
				4-
		Ž.		# 1
	: IIII IIII IIII *** * *****	· · · · · · · · · · · · · · · · · · ·	$ \dot{\Xi} $	₫.
				- Ministra nac-
Port Number 10/100/1000M PoE port	28 24	28 24	12 8	10 8
1000M fiber port	-	4	4	2
10G SFP+ fiber port	4	-	-	-
Power				
Power input	DC48~57V/AD220	DC48~57V, AC/DC220	DC48~57V	DC48~52V
Consumption	<22W@DC48V,	<21W@DC48V,	<12W@DC48V(No PD)	<8W@DC48V(No PD
-	<33W@AC220V	<32W@AC220V	121100001011101010	-ove Be-lov (NoT B
Working Environment				
Operating temperature	-40°C ~+70°C	-40°C ~+70°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensi
Physical Parameter				
Installation	Rack Mount	Rack Mount	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	482.6*44*280	482.6*44*210	160*58*122	160*58*122
Switching Performance				
Switching bandwidth	128Gbps	56Gbps	56Gbps	20Gbps
MAC table	16K	8K	8K	8K
Buffer size	12Mbit	4.1Mbit	4.1Mbit	4.1Mbit
PoE				
IEEE802.3af/at	Support	Support	Support	Support
Basic Function				
QoS/VLAN	Support	Support	Support	Support
Port static aggregation	Support	Support	Support	Support
LACP IGMP snooping	Support Support	Support Support	Support Support	Support Support
Storm suppression	Support	Support	Support	Support
Port isolation	Support	Support	Support	Support
Redundancy Protocol				
MW-Ring	Support	Support	Support	Support
ERPS	Support	Support	Support	Support
STP/RSTP	Support	Support	Support	Support
Layer 3 Features				
Layer 3 routing	Support	-	-	-
Multicast routing	Support	-	-	-
VRRP	Support	-	-	-
Management				
SNMPv1/v2c/v3	Support	-	-	-
LLDP	Support	-	-	-
DHCP	Support	-	-	-
RMON	Support	-	-	-
GVRP	Support	-	-	-
GMRP	Support	-	-	-
Device management	Support			-
Security				
802.1X	Support	-	-	-
HTTPS/SSL	Support Support	-	-	-
Port security binding	SUDDORT	_	_	_



	Ummanaged			
Model	CIEN3210GP-2GF-8GTPoE	CIEN3206GP-2GF-4GTPoE	CIEN3205GP-GF-4GTPoE	
Port Number	10	6	5	
0/100/1000M PoE copper port	2	2	1	
000M SFP port	8	4	4	
0G SFP+ fiber port	-	-	-	
Power				
Power input	DC48~52V, DC24V	DC48~52V	DC48~52V	
Consumption	<8W@DC24V(No PD) <7W@DC48V(No PD)	<3.5W@DC48V(No PD)	<3W@DC48V(No PD)	
Working Environment				
Operating temperature	-40°C ~+85°C	-40°C ~+75°C	-40°C ~+75°C	
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical Parameter				
nstallation	DIN Rail	DIN Rail	DIN Rail	
Dimension (L)*(W)*(H) mm	140*54*110	140*35*100	118*35*88	
Switching Performance				
Switching bandwidth	20Gbps	14Gbps	14Gbps	
MAC table	4K	2K	2K	
Buffer size	1.5Mbit	2Mbit	2Mbit	
PoE				
EEE802.3af/at	Support	Support	Support	
	Industri	al Fiber Optic Co	nverter	
Model	CT8110-F	CT3110-GF	CIEN1203-F	CIEN1203G-GF-2GT
		Test Changes	B	B
Port Number				
0/100M RJ45 port	1	-	2	-
0/100/1000M RJ45 port	-	1	-	2
00M fiber port	1	-	1	-
000M fiber port	-	1/00/07/50 1 11 11)		
		1(SC/ST/FC Available)	-	1
0G SFP+ fiber port	-	1(SC/ST/FC Available) -	-	1 -
0G SFP+ fiber port	-	TISC/ST/FC Available)	- - -	1 - -
0G SFP+ fiber port Gigabit combo port	-	I(SC/ST/FC Available) - -	- - -	1 - -
OG SFP+ fiber port Gigabit combo port Power	- - DC5V, AC/DC22V	T(SC/ST/FC Available) DC5V, AC/DC220V	- - - DC9~60V, AC/DC220V	1 - - DC9~60V, AC/DC220V
OG SFP+ fiber port Gigabit combo port Power Power input	- - DC5V, AC/DC22V <2.5W@DC24V		- - - DC9~60V, AC/DC220V <1.5W@DC24V	1 - - DC9~60V, AC/DC220V <1.7W@DC12V
OG SFP+ fiber port Gigabit combo port Power Power input Consumption		- - DC5V, AC/DC220V		
OG SFP+ fiber port Gigabit combo port Power Power input Consumption Working Environment		- - DC5V, AC/DC220V		
OG SFP+ fiber port Gigabit combo port Power Power input Consumption Working Environment Deparating temperature	<2.5W@DC24V	- - DC5V, AC/DC220V <3W@DC24V	<1.5W@DC24V	<1.7W@DC12V -40°C ~+85°C
OG SFP+ fiber port Gigabit combo port Power Power input Consumption Working Environment Operating temperature Ambient humicrty	<2.5W@DC24V 0°C ~+70°C	- - DC5V, AC/DC220V <3W@DC24V 0°C ~+70°C	<1.5W@DC24V -40°C ~+85°C	<1.7W@DC12V -40°C ~+85°C
OG SFP+ fiber port Gigabit combo port Power Power input Consumption Working Environment Departing temperature Ambient humicrty Physical Parameter	<2.5W@DC24V 0°C ~+70°C	- - DC5V, AC/DC220V <3W@DC24V 0°C ~+70°C	<1.5W@DC24V -40°C ~+85°C	<1.7W@DC12V -40°C ~+85°C
OG SFP+ fiber port Gigabit combo port Power Power input Consumption Working Environment Departing temperature Ambient humicrty Physical Parameter Installation	<2.5W@DC24V 0°C ~+70°C 5%~95% (non-condensing)	- - DC5V, AC/DC220V <3W@DC24V 0°C ~+70°C 5%~95% (non-condensing)	<1.5W@DC24V -40°C ~+85°C 5%~95% (non-condensing)	<1.7W@DC12V -40°C ~+85°C 5%~95% (non-condensing
OG SFP+ fiber port Sigabit combo port Power Power input Consumption Working Environment Operating temperature Ambient humicrty Physical Parameter Installation Dimension (L)*(W)*(H) mm	<2.5W@DC24V 0°C ~+70°C 5%~95% (non-condensing) Desktop DC model: 95*70 *26	DC5V, AC/DC220V <3W@DC24V 0°C ~+70°C 5%~95% (non-condensing) Desktop DC model: 95*70 *26	<1.5W@DC24V -40°C ~+85°C 5%~95% (non-condensing) DIN Rail	<1.7W@DC12V -40°C ~+85°C 5%~95% (non-condensing
OG SFP+ fiber port Gigabit combo port Power Power input Consumption Working Environment Departing temperature Ambient humicrty Physical Parameter Installation Dimension (L)*(W)*(H) mm Switching Performance	<2.5W@DC24V 0°C ~+70°C 5%~95% (non-condensing) Desktop DC model: 95*70 *26	DC5V, AC/DC220V <3W@DC24V 0°C ~+70°C 5%~95% (non-condensing) Desktop DC model: 95*70 *26	<1.5W@DC24V -40°C ~+85°C 5%~95% (non-condensing) DIN Rail	<1.7W@DC12V -40°C -+85°C 5%-95% (non-condensing
Indo SFP+ fiber port Gigabit combo port Power Power input Consumption Working Environment Operating temperature Ambient humicrty Physical Parameter Installation Dimension (L)*(W)*(H) mm Switching Performance Switching bandwidth MAC table	<2.5W@DC24V 0°C ~+70°C 5%~95% (non-condensing) Desktop DC model: 95*70 *26	DC5V, AC/DC220V <3W@DC24V 0°C ~+70°C 5%~95% (non-condensing) Desktop DC model: 95*70 *26	<1.5W@DC24V -40°C ~+85°C 5%-95% (non-condensing) DIN Rail 118*35*88	<1.7W@DC12V -40°C ~+85°C 5%~95% (non-condensing DIN Rail 118*35*88

Industrial Ethernet Switch

VDSL Ethernet Extender					
Model	CES1101	CES1204	CES1204-2F		
Port Number					
10/100M RJ45 port	1	4	2		
10/100/1000M RJ45 port	-	-	-		
100M fiber port	-	-	2		
1000M fiber port	-	-	-		
10G SFP+ fiber port	-	-	-		
DSL interface	1	2	2		
Power					
Power input	DC9~24V	DC9~24V	DC9~24V		
Consumption	<1.2W@DC12V	<4.5W@DC12V	<4.5W@DC12V		
Working Environment					
Operating temperature	-20°C ~+75°C	-20°C ~+75°C	-20°C ~+75°C		
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing		
Physical Parameter					
Installation	Embedded	Embedded	Embedded		
Dimension (L)*(W)*(H) mm	84*54*13.6	95*75*13.6	95*75*13.6		
Switching Performance					
Switching bandwidth	-	-	1.6Gbps		
MAC table	-	-	768kbit		
IGMP group	-	-	2K		

Model CES1204A	CES1204A-2F
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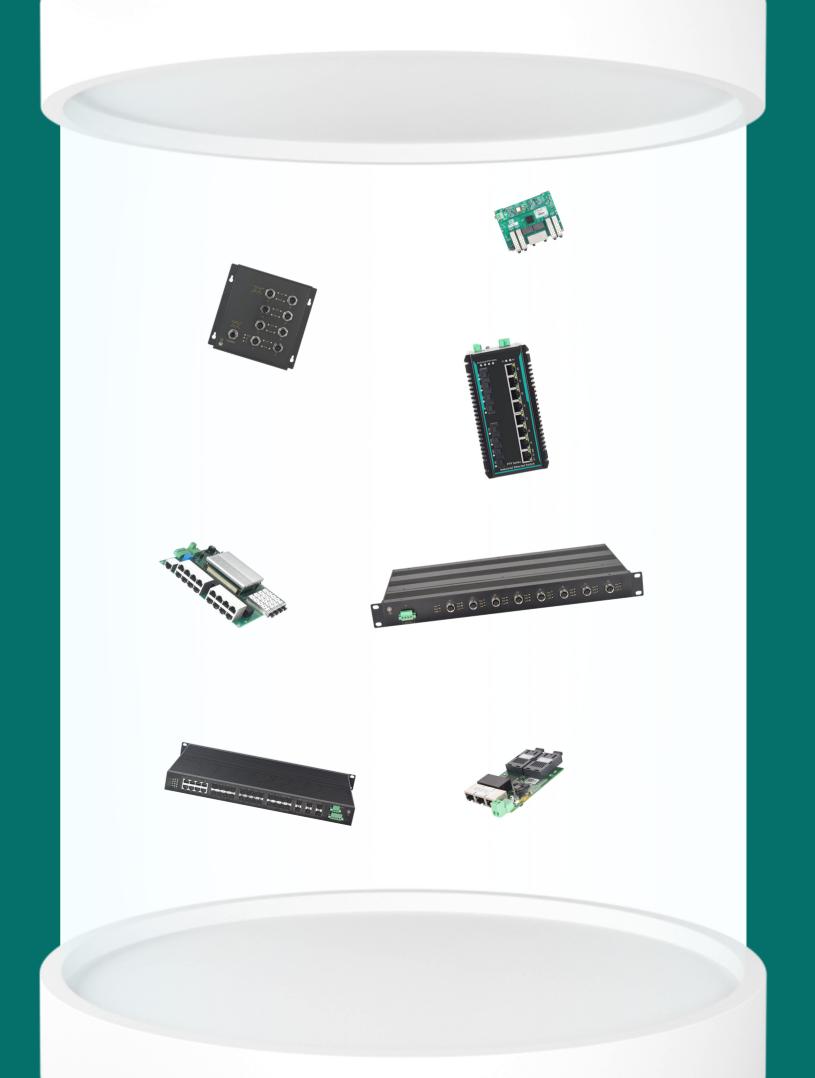
Port Number			
10/100M RJ45 port	4	2	
10/100/1000M RJ45 port	-	-	
100M fiber port	-	2	
1000M fiber port	-	-	
IOG SFP+ fiber port	-	-	
DSL interface	2	2	
Power			
Power input	DC12~32V	DC12~32V	
Consumption	<2.5W@DC12V	<4.3W@DC12V	
Working Environment			
Operating temperature	-20°C ~+75°C	-20°C ~+75°C	
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical Parameter			
nstallation	Embedded	Embedded	
Dimension (L)*(W)*(H) mm	150*110*13.6mm	150*110*13.6mm	
Switching Performance			
Switching bandwidth	1.6Gbps	1.6Gbps	
MAC table	768kbit	768kbit	
GMP group	2K	2K	

02

INDUSTRIAL SPECIFIC SWITCH

Embedded Ethernet Switch

CES8112GX-4XGF-8GC · · · · · · · · · · · · · · · · · · ·
CES7110GX-2XGF-4GF-4GT · · · · · · · · · · · · · · · · · · ·
CES7106GX-2XGF-4GT · · · · · · · · · · · · · · · · · · ·
CES8120G-4GF-16GT · · · · · · · · · · · · · · · · · · ·
CES7112G-4GF-8GT043
CES3106G-3GF-3GT · · · · · · · · · · · · · · · · · · ·
CES3106G-2GF-4GT · · · · · · · · · · · · · · · · · · ·
CISCOM7110S-2GF-3D-2C · · · · · · · · · · · · · · · · · · ·
CISCOM7110-3GF-2D-2C······044
CIEN5108-4D-2C · · · · · · · · · · · · · · · · · · ·
CIEN5105-2D-2C · · · · · · · · · · · · · · · · · · ·
CIEN5105BP · · · · · · · · · · · · · · · · · · ·
CIEN5105C-2D······045
CIEN5105A-2F · · · · · · · · · · · · · · · · · · ·
CIEN5104-2F045
CES2105A-2F······046
CES2105B-2F046
CES2105M······046
CES2105 · · · · · · · · · · · · · · · · · · ·
CES2103



Rail Transit Switch

CTS2208P-M12-8TPoE · · · · · · · · · · · · · · · · · · ·
CTS6008P-M12-8TPoE · · · · · · · · · · · · · · · · · · ·
CTS7116BP-M12-4GT-8TPoE · · · · · · · · · · · · · · · · · · ·
CTS7014BP-M12-4GT-10TPoE · · · · · · · · · · · · · · · · · · ·
CTS8012G-M12-12GT · · · · · · · · · · · · · · · · · · ·
CTS8212G-M12-12GT · · · · · · · · · · · · · · · · · · ·
CTS7012G-M12-12GT · · · · · · · · · · · · · · · · · · ·
CTS7212G-M12-12GT · · · · · · · · · · · · · · · · · · ·
CTS8116BP · · · · · · · · · · · · · · · · · · ·
CTS6116BP · · · · · · · · · · · · · · · · · · ·
CTS2209-M12 · · · · · · · · · · · · · · · · · · ·

IEC61850-3 Industrial Ethernet Switch

CISCOM8030PTP-6XGF-16GF-8GC · · · · · · · · · · · · · · · · · · ·	05
CISCOM8216PTP-4XGF-4GF-8GT · · · · · · · · · · · · · · · · · · ·	05
CISCOM7028G-4GC-24GT · · · · · · · · · · · · · · · · · · ·	
CISCOM7028-4GC · · · · · · · · · · · · · · · · · · ·	
CISCOM7028-4GC-4F · · · · · · · · · · · · · · · · · · ·	
CISCOM7028-4GC-8F · · · · · · · · · · · · · · · · · · ·	
CISCOM7028-4GC-16F · · · · · · · · · · · · · · · · · · ·	
CISCOM7028-4GF-24F · · · · · · · · · · · · · · · · · · ·	
CISCOM6026-2F	053

Industrial Control Switch

CIES205 · · · · · · · · · · · · · · · · · · ·	
CIES208 · · · · · · · · · · · · · · · · · · ·	054
CIES216 · · · · · · · · · · · · · · · · · · ·	
CIES305G·····	
CIES308G·····	
CIES316G·····	
CIES203EC	
CIES206EC	
CIES208PN · · · · · · · · · · · · · · · · · · ·	
CIES205PN · · · · · · · · · · · · · · · · · · ·	
CIES305PN · · · · · · · · · · · · · · · · · · ·	
CIES308PN	057
TSN Ethernet Switch	
	058
CISCOM7208TSN-2GF-6GT · · · · · · · · · · · · · · · · · · ·	
CISCOM7208TSN-2GF-6GT · · · · · · · · · · · · · · · · · · ·	058
CISCOM7208TSN-2GF-6GT · · · · · · · · · · · · · · · · · · ·	058
CISCOM7208TSN-2GF-6GT · · · · · · · · · · · · · · · · · · ·	058
CISCOM7208TSN-2GF-6GT	058
CISCOM7208TSN-2GF-6GT · · · · · · · · · · · · · · · · · · ·	058
CISCOM7208TSN-2GF-6GT CISCOM8036TSN-4XGF-24GF-8GT CISCOM8216TSN-4XGF-4GF-8GT PTP Ethernet Switch	058 058
CISCOM7208TSN-2GF-6GT	058 058



Embedded Ethernet Switch CES8112GX-4XGF-8GC CES7110GX-2XGF-4GF-4GT CES7106GX-2XGF-4GT







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Port Number	12	10	6
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	-	4	4
100M fiber port	-	-	-
1000M fiber port	-	4	-
10G SFP+ fiber port	4	2	2
Gigabit Combo port	8	-	-
Power			
Power input	DC12~24V	DC9V~36V	DC9V~36V
Consumption	20W@12VDC	<7.5W@DC12V	<6.5W@DC12V
Working Environment			
Operating temperature	-40°C ~+70°C	-40°C ~+85°C	-40°C ~+85°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter	-		
Installation	Embedded	Embedded	Embedded
Dimension (L)*(W)*(H) mm	185*135*63	115*95*38	115*95*15.2
Switching Performance	165 155 65	115 75 36	115 75 15.2
	100.01	440	440
Switching bandwidth	128Gbps	64Gbps	64Gbps
MAC table	16K	16K	16K
IGMP group	Support	Support	Support
Basic Function			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
IGMPv1/v2/v3 multicast	Support	-	-
BSP	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP/RSTP/STP	Support	Support	RSTP/STP
Layer 3 Software Property			
Layer 3 routing	Static, RIP, OSPF	-	-
Multicast routing	PIM-SM/PIM-DM	-	-
VRRP	Support	-	-
Management			
SNMPv1/v2c/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Server/Relay/Snooping	-	-
RMON	Support	-	-
GVRP	Support	Support	Support
GMRP	Support	Support	Support
NST/SNTP	SNTP	SNTP	SNTP
Security			
802.1X	Support	-	-
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	-	-
RADIUS	-	-	-

Industrial Specific Switch

			1	1
Model	CES8120G-4GF-16GT	CES7112G-4GF-8GT	CES3106G-3GF-3GT	CES3106G-2GF-4G
		Sin.		
Port Number	20	12	6	6
10/100 RJ45 port	-	-	-	-
10/100/1000 RJ45 port	16	8	3	4
100M fiber port	-	-	-	-
1000M fiber port	4	4	3	2
10G SFP+ fiber port	-	-	-	-
Gigabit Combo port	-	-	-	-
Power				
Power input	DC24~48V	DC9~24V	DC9~24V	DC9~24V
Consumption	<15W@DC24V	<12W@DC24V	<3.6W@DC12V	<3W@DC12V
Working Environment				
•	4000 .0500	4000 .0500	-40°C ~+85°C	-40°C ~+85°C
Operating temperature	-40°C ~+85°C	-40°C ~+85°C		
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~96% (non-condensin
Physical Parameter				
Installation	Embedded	Embedded	Embedded	Embedded
Dimension (L)*(W)*(H) mm	184*164*26.8	172*146*26.8	120*90*16.1	115*95*15.2
Switching Performance				
Switching bandwidth	40Gbps	24Gbps	14Gbps	14Gbps
MAC table	16K	8K	2K	8K
IGMP group	512	-	-	2K
Basic Function				
Qos/Vlan	Support	Support	_	_
Port Static Trunk/LACP	Support	Support	Support	Support
IGMPv1/v2/v3 multicast	Support	Support	Support	Support
BSP	Support	Support	-	-
Redundancy Protocol	2242	30,440.1		
· ·				
MW-Ring	Support	-	-	-
ERPS/EAPS MSTP/RSTP/STP	Support	-	-	-
	Support	-	-	-
Layer 3 Software Property				
Layer 3 routing	Support	-	-	-
Multicast routing	PIM-SM/PIM-DM	-	-	-
VRRP	Support	-	-	-
Management				
SNMPv1/v2c/v3	Support	Support	-	-
LLDP	Support	Support	-	-
DHCP	-	-	-	-
RMON	Support	Support	-	-
GVRP	Support	Support	-	-
GMRP	Support	Support	-	-
NST/SNTP	SNTP	SNTP	-	-
Security				
802.1X	Support	Support		
HTTPS/SSL	Support	Support	_	
Port security binding	Support	Support	-	-
I OLI SCCULILY DILIUILIU	Jupport	Jupport		
ACL	Support	Support	-	-



Embedded Ethernet Switch					
Model	CISCOM7110S-2GF-3D-2C	CISCOM7110-3GF-2D-2C	CIEN5108-4D-2C	CIEN5105-2D-2C	
Port Number	10	10	8	5	
10/100 RJ45 port	4/5/6/7/8	-	4/6/8	3/5	
10/100/1000 RJ45 port	-	-	-	-	
100M fiber port	1/2/3/4	7	2/4	2	
1000M fiber port	2	-	-	-	
Serial port	3	3	4	2	
CAN port	2	-	2	2	
Power					
Power input	DC12/24/48V	DC9~24V	DC9~36V	DC12~48V	
Consumption	<7W@DC24V	<9W@DC24V	<5.5W@DC24V	<5W(MAX)	
Working Environment					
Ü	40% -05%	-40°C ~+85°C	4000 .0500	4000 .0500	
Operating temperature	-40°C ~+85°C 5%~95% (non-condensing)	-40°C ~+85°C 5%~95% (non-condensing)	-40°C ~+85°C 5%~95% (non-condensing)	-40°C ~+85°C 5%~95% (non-condensing	
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing	
Physical Parameter					
Installation	Embedded	Embedded	Embedded	Embedded	
Dimension (L)*(W)*(H) mm	180*135*16.2	180*135*26.2	180*130*31	160*135	
Switching Performance					
Switching bandwidth	5.6Gbps	7.6Gbps	2Gbps	1Gbps	
MAC table	8K	8K	2K	2K	
IGMP Group	Support	-	Support	-	
Basic Function					
Qos/Vlan	Support	Support	Support	Support	
Port Static Trunk/LACP	Support	Support	Support	Support	
IGMPv1/v2/v3 multicast	-	Support	Support	Support	
BSP	Support	Support	Support	Support	
Redundancy Protocol					
	Support	Cupport	Cupport	Cupport	
MW-Ring ERPS/EAPS	Support Support	Support Support	Support Support	Support Support	
MSTP/RSTP/STP	RST/STP	Support	Support	Support	
	1.01/317	συρροιτ	эцрроге	Зирроге	
Data Interface					
RS232	Support	Support	Support	Support	
RS485	Support	Support	Support	Support	
CAN	Support	Support	Support	Support	
Management					
SNMPv1/v2c/v3	Support	Support	-	-	
LLDP	Support	Support	Support	Support	
DHCP	-	Support	-	-	
RMON	Support	Support	-	-	
GVRP	-	Support	-	-	
GMRP	Support	Support	-	-	
NST/SNTP	Support	SNTP	-	-	
Security					
802.1X	Support	Support	-	-	
HTTPS/SSL	Support	Support	-	-	
Port security binding	Support	Support	-	-	
ACL	Support	Support	-	-	
RADIUS	Support	Support	-	-	

Industrial Specific Switch

		edded Ethernet S		
Model	CIEN5105BP	CIEN5105C-2D	CIEN5105A-2F	CIEN5104-2F
Port Number	5	5	5	4
10/100 RJ45 port	2	2/3	3	2
10/100/1000 RJ45 port	-	-	-	-
100M fiber port	3	3/2	2	2
1000M fiber port	Support	-	-	-
Serial port	2	2	-	-
CAN port	2	2	-	-
Power				
Power input	DC6~32V	DC9~36V	DC9~24V	DC6~32V
Consumption	<3.5W@DC12V	<3.5W@DC24V	<2.67W@DC12V	<2.3W@DC12V
Working Environment				
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+85°C	-40°C ~+85°C
Ambient humicrty	5%~95 % (non-condensing)	5%~95 % (non-condensing)	5%~95 % (non-condensing)	5%~95 % (non-condensi
,	576 75 76 (non-condensing)	576 76 76 (Horr-condensing)	576 76 76 (Horr-condensing)	570 75 75 (Horr-condens)
Physical Parameter				
Installation	Embedded	Embedded	Embedded	Embedded
Dimension (L)*(W)*(H) mm	114*90*35.6	114*90*14.7	94*66*13.6	95*60*13.6
Switching Performance				
Switching bandwidth	1.2Gbps	1.2Gbps	1.2Gbps	1.2Gbps
MAC table	2K	2K	2K	2K
IGMP Group	-	-	-	-
Basic Function				
Qos/Vlan	Support	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support	Support
IGMPv1/v2/v3 multicast	Support	Support	Support	Support
BSP	Support	Support	Support	Support
Redundancy Protocol				
MW-Ring	Support	Support	Support	Support
ERPS/EAPS	-	-	-	-
MST/RSTP/STP	Support	Support	Support	Support
Layer 3 Software				
Property				
Layer 3 routing	-	-	-	-
Multicast routing	-	-	-	-
VRRP	-	-	-	-
Management				
SNMPv1/v2c/v3	-	-	-	-
LLDP	-	-	-	-
DHCP	-	-	-	-
RMON	-	-	-	-
GVRP	-	-	-	-
GMRP	-	-	-	-
NST/SNTP		-	-	
Security				
802.1X	-	-	-	-
HTTPS/SSL	-	-	-	-
Port security binding	-	-	-	-
ACL	-	-	-	-
RADIUS	-	-	-	-



Embedded Ethernet Switch Model CES2105A-2F CES2105B-2F CES2105M







		**	
Port Number	5	5	5
10/100 RJ45 port	3	3	3/2
10/100/1000 RJ45 port	-	-	-
100M fiber port	2	2	2/3
1000M fiber port	-	-	-
Serial port	-	-	-
CAN port	-	-	-
Power			
Power input	DC5V~32V	DC5V~32V	DC5V~32V
Consumption	<1.95W@DC12V	<1.95W@DC12V	<3W@DC12V
Working Environment			
Operating temperature	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+85°C
Ambient humicrty	5%~95 % (non-condensing)	5%~95 % (non-condensing)	5%~95 % (non-condensing)
Physical Parameter			
Installation	Embedded	Embedded	Embedded
Dimension (L)*(W)*(H) mm	94*66*13.6	114*68*13.6	120*70*13.6
Switching Performance			
Switching bandwidth	1Gbps	1Gbps	1.2Gbps
MAC table	2K	2K	2K
IGMP Group	-	-	-

Industrial Specific Switch

Embedded Ethernet Switch			
Model	CES2105	CES2103	





Port Number	5	3	
10/100 RJ45 port	4/3/2	2	
10/100/1000 RJ45 port	-	-	
100M fiber port	1/2/3	1	
1000M fiber port	-	-	
Serial port	-	-	
CAN port	-	-	
Power			
Power input	DC9V~24V	DC9V~24V	
Consumption	<2.4W(MAX)	<1.29W(MAX)	
Working Environment			
Operating temperature	-40°C ~+85°C	-40°C ~+85°C	
Ambient humicrty	5%-95 % (non-condensing)	5%~95 % (non-condensing)	
Physical Parameter			
Installation	Embedded	Embedded	
Dimension (L)*(W)*(H) mm	76*66*33.2	76*66*13.6	
Switching Performance			
Switching bandwidth	1Gbps	1Gbps	
MAC table	2K	2K	
IGMP Group	-	-	



	F	Rail Transit Switc	h	
Model	CTS2208P-M12-8TPoE	CTS6008P-M12-8TPoE	CTS7116BP-M12-4GT- 8TPoE	CTS7014BP-M12-4GT- 10TPoE
		[1_a + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 +		- 0,0,0,0,0,0,0,0,0,0
Port Number	8	8	16	14
10/100 M12 port			4	-
10/100/1000 M12 port			4	4
10/100 PoE M12 port	8	8	8	10
100M fiber port	-	-	-	-
1000M fiber port	-	-	-	-
10G SFP+ fiber port	-	-	-	-
Gigabit combo port	-	-	-	-
Power				
Power input	DC18~36V	DC18~36V	DC 77~150V	DC50~160V
Consumption	<5W@DC24V	<5W@DC24V(without PD)	<15W@DC110V(without PD)	<14W@DC110V (without PD
Working Environment	311323211	,		
	1000 7000	4000 7000	4000 4500	4000 7000
Operating temperature	-40°C ~+70°C	-40°C ~+70°C	-40°C ~+65°C	-40°C ~+70°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing
Physical Parameter				
nstallation	Wall Mount	Rack Mount	Embedded	Rack Mount
Dimension (L)*(W)*(H) mm	180*170*64.5	180*170*64.5	213*128.7*82.5	440*44*210
Switching Performance				
Switching bandwidth	5.6Gbps	5.6Gbps	12.8Gbps	12.8Gbps
MAC table	8K	8K	8k	8k
Basic Function				
QoS/VLAN		Cupport	Support	Cupport
Port static trunk/LACP		Support	Support	Support
IGMP v1/v2/v3 multicast	_	Support -	Support -	Support Support
				Support
Redundancy Protocol				
MW-Ring	-	Support		Support
ERPS/EAPS	-	Support	Support	Support
STP/RSTP	-	Support	Support	Support
Layer 3 Software Property				
_ayer 3 routing	-	-	-	-
Multicast routing	-	-	-	-
VRRP	-	-	-	-
Management				
SNMP v1/v2c/v3	-	Support	Support	Support
LDP	-	Support	Support	Support
DHCP	-	-	-	-
RMON	-	Support	-	Support
GVRP	-	-	-	-
GMRP	-	-	-	-
Device Management	-	Support	Support	Support
Security				
802.1X		Support	Support	Support
HTTPS/SSL	-	Support	Support	Support
Port security binding	-	Support	Support	- Support
ACL	-	Support	Support	Support

Industrial Specific Switch

	Rail Transit Switch				
Model	CTS8012G-M12-12GT	CTS8212G-M12-12GT	CTS7012G-M12-12GT	CTS7212G-M12-12GT	
	-	0000	<i>;</i> =000000000000000000000000000000000000	. 0000 . 0000 . 0000	
Port Number	12	12	12	12	
10/100M M12 port	-	-	-	-	
10/100/1000M M12 port	12	12	12	12	
10/100 PoE M12 port	-	-	-	-	
100M fiber port	-	-	-	-	
1000M fiber port	-	-	-	-	
10G SFP+ fiber port	-	-	-	-	
10/100/1000M Bypass port	4	-	4	-	
Power					
Power input	DC24V/48V/110V/220V	DC24V/48V/110V	DC24V/48V/110V/220V	DC24V/48V/110V	
Consumption	<15W(MAX)	<15W(MAX)	<15W(MAX)	<15W(MAX)	
Working Environment					
	1000 7000	4000 7000	4000 7000	4000 7000	
Operating temperature	-40°C ~+70°C	-40°C ~+70°C	-40°C ~+70°C	-40°C ~+70°C	
Ambient hurnicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing	
Physical Parameter					
Installation	Rack Mount	Wall Mount	Rack Mount	Wall Mount	
Dimension (L)*(W)*(H) mm	482.6*44*210	180*170*55.5	482.6*44*210	180*170*55.5	
Switching Performance					
Switching bandwidth	24Gbps	24Gbps	24Gbps	24Gbps	
MAC table	16K	16K	16K	16K	
Basic Function					
QoS/VLAN	Cupport	Cupport	Cupport	Cupport	
Port static trunk/LACP	Support Support	Support Support	Support Support	Support Support	
IGMP v1/v2/v3 multicast	Support	Support	Support	Support	
	Зарроге	эцрогс	Зарроге	Support	
Redundancy Protocol			,		
MW-Ring	Support	Support	Support	Support	
ERPS/EAPS	Support	Support	Support	Support	
STP/RSTP	Support	Support	Support	Support	
Layer 3 Software Property					
Layer 3 routing	Static, RIP, OSPF	Static, RIP, OSPF	_	_	
Multicast routing	PIM-SM/PIM-DM	PIM-SM/PIM-DM	-	-	
VRRP	Support	Support	Support	Support	
Management					
		Ĉ.	0 .	0 .	
SNMP v1/v2c/v3	Support	Support	Support	Support	
LLDP	Support	Support	Support	Support	
DHCP RMON	Server Support	Server	Server	Server	
GVRP	Support	Support Support	Support Support	Support Support	
GMRP	Support	Support	Support	Support	
Device Management	Support	Support	Support	Support	
	συρροιτ	συρροιτ	σαρροιτ	Support	
Security					
802.1X	Support	Support	Support	Support	
HTTPS/SSL	Support	Support	Support	Support	
Port security binding	Support	Support	Support	Support	
ACL	Support	Support	Support	Support	
RADIUS	Support	Support	Support	Support	

Rail Transit Switch			
Model	CTS8116BP	CTS6116BP	CTS2209-M12

			0
Port Number	16	16	9
10/100M M12 port	12	12	9
10/100/11/11/2 port	-	-	-
10/100 PoE M12 port	-	-	-
100M fiber port	-	-	-
1000M fiber port	_	-	-
10G SFP+ fiber port	-	-	-
10/100/1000M Bypass port	4	4	-
Power			
Power input	DC24V	DC24V	DC9~36V
Consumption	<10W(MAX)	<8W(MAX)	<5W(MAX)
Working Environment		2110 224	2.10.2.20
	4000 +7000	4090 +0590	4000 + 0500
Operating temperature Ambient hurnicity	-40°C ~+70°C	-40°C ~+85°C	-40°C ~+85°C
·	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	Plug-in	Plug-in	Desktop, Wall Mount
Dimension (L)*(W)*(H) mm	157*104*116.5	157*104*116.5	195*50.5*104
Switching Performance			
Switching bandwidth	24Gbps	24Gbps	1.8Gbps
MAC table	16K	8K	2k
Basic Function			
QoS/VLAN	Support	Support	-
Port static trunk/LACP	Support	Support	-
IGMP v1/v2/v3 multicast	Support	Support	-
Redundancy Protocol			
MW-Ring	Support	Support	-
ERPS/EAPS	Support	Support	-
STP/RSTP	Support	Support	-
Layer 3 Software Property			
Layer 3 routing	Static, RIP, OSPF	-	-
Multicast routing	PIM-SM/PIM-DM	-	-
VRRP	Support	-	-
Management			
SNMP v1/v2c/v3	Support	Support	-
LLDP	Support	Support	-
DHCP	Server	Server	-
RMON	Support	Support	-
GVRP	Support	Support	-
GMRP	Support	Support	-
Device Management	Support	Support	-
Security			
802.1X	Support	Support	-
HTTPS/SSL	Support	Support	-
Port security binding	Support	Support	-
ACL	Support	Support	-

Industrial Specific Switch

Model	CISCOM8030PTP-6XGF-16GF-8GC	CISCOM8216PTP-4XGF-4GF-8GT	CISCOM7028G-4GC-24G
		B. B.	
	7	B	•
Port Number	30	16	28
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	-	8	24
100M fiber port	-	-	-
1000M fiber port	16	8	-
10G SFP+ fiber port	6	4	-
Gigabit combo port	8	-	4
Power			
Power input	AC85~264V/DC110~370V	DC20-72V, AC85~264V/DC110~370V	AC85~264V/DC110~370V
Consumption	<47W@AC220V	<27W@DC48V(full load) <27W@AC220V(full load)	<24W@AC220V
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
nstallation	Rack Mount	DIN Rail	Rack Mount
Dimension (L)*(W)*(H) mm	482.6*44*315	160*82.5*128	482.6*44*210
Switching Performance			
Switching bandwidth	180Gbps	180Gbps	180Gbps
MAC table	32K	32K	32K
Basic Function			
QoS/VLAN	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
GMPv1/v2/v3 multicast	Support	Support	Support
Broadcast storm suppression	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS	Support	Support	Support
RSTP/STP	STP/RSTP/MSTP	STP/RSTP/MSTP	STP/RSTP
Layer 3 Software Property			
Layer 3 routing	Support	Support	-
Multicast routing	Support	Support	-
VRRP	Support	Support	-
Management			
SNMPv1/v2c/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	-	-	Support
GMRP	-	-	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support



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Port Number	28	28	28
10/100 RJ45 port	24	20	16
10/100/1000 RJ45 port	-	-	-
100M fiber port	-	4	8
1000M fiber port	4	4	4
10G SFP+ fiber port	-	-	-
Gigabit combo port		-	
Power			
Power input	AC/DC220V	AC/DC220V	AC/DC220V
Consumption	<40W(MAX)	<40W(MAX)	<40W(MAX)
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Rack Mount
Dimension (L)*(W)*(H) mm	482.6*44*210	482.6*44*210	482.6*44*210
Switching Performance			
Switching bandwidth	12.8Gbps	12.8Gbps	12.8Gbps
MAC table	8K	8K	8K
Basic Function			
QoS/VLAN	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
IGMPv1/v2/v3 multicast	Support	Support	Support
Broadcast storm suppression	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS	Support	Support	Support
RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	_		_
Multicast routing	_	-	-
VRRP	-	-	-
Management			
	Cumport	Cumpart	Cumpart
SNMPv1/v2c/v3 LLDP	Support Support	Support Support	Support Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Specific Switch

IEC61850-3 Industrial Ethernet Switch			
Model	CISCOM7028-4GC-16F	CISCOM7028-4GF-24F	CISCOM6026-2F
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Port Number	28	28	16
10/100 RJ45 port	8	-	24
10/100/1000 RJ45 port	-	-	-
100M fiber port	16	24	2
1000M fiber port	4	4	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	AC/DC220V	AC/DC220V	AC/DC220V
Consumption	<40W(MAX)	<40W(MAX)	<40W(MAX)
Working Environment			
	1000 7500	4000 7500	4000 7500
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	Rack Mount	Rack Mount	Rack Mount
Dimension (L)*(W)*(H) mm	482.6*44*210	482.6*44*315	482.6*44*210
Switching Performance			
Switching bandwidth	12.8Gbps	12.8Gbps	12.8Gbps
MAC table	8K	8K	8K
Basic Function			
QoS/VLAN	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
IGMPv1/v2/v3 multicast	Support	Support	Support
Broadcast storm suppression	Support	Support	Support
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS	Support	Support	Support
RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	-	-	-
Multicast routing	-	-	-
VRRP	-	-	-
Management			
SNMPv1/v2c/v3	Support	Support	Support
LLDP	Support	Support	Support
DHCP	Support	Support	Support
RMON	Support	Support	Support
GVRP	Support	Support	Support
GMRP	Support	Support	Support
Device management	Support	Support	Support
Security			
802.1X	Support	Support	Support
HTTPS/SSL	Support	Support	Support
Port security binding	Support	Support	Support
ACL	Support	Support	Support
RADIUS	Support	Support	Support



Industrial Control Switch			
Model	CIES205	CIES208	CIES216
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Port Number	5	8	16
10/100 RJ45 port	5	8	16
10/100/1000 RJ45 port	-	-	-
100M fiber port	-	-	-
1000M fiber port	-	-	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V, AC24V	DC9~60V, AC24V	AC/DC220V, DC9~60V
Consumption	<1.4W@DC24V	<1W(MAX)	<2W(MAX)
Working Environment			
Operating temperature	DIN Rail	DIN Rail	DIN Rail
Ambient humicrty	102*33*78	102*46*78	140*54*110
Physical Parameter			
Installation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	102*33*78	102*33*78	140*54*110
Switching Performance			
Switching bandwidth	1Gbps	1.6Gbps	3.2Gbps
MAC table	2K	2K	8K
Protocol			
EtherCAT	-	-	-
PROFINET	-	-	-

Industrial Specific Switch

Model	CIES305G	CIES308G	CIES316G
Port Number	5	8	16
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	5	8	16
100M fiber port	-	-	-
1000M fiber port	-	-	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V/AC24V	DC9~60V/AC24V	DC9~60V/AC24V
Consumption	<2.1W@DC24V	<3.2W@DC24V	<9.1W@DC24V
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	102*33*78	102*46*78	140*54*11
Switching Performance			
Switching bandwidth	14Gbps	16Gbps	52Gbps
MAC table	2k	4k	8k
Protocol			
EtherCAT	-	-	-
PROFINET	_	-	_



Industrial Control Switch			
Model	CIES203EC	CIES206EC	CIES208PN
Port Number	3	6	8
10/100 RJ45 port	3	6	8
10/100/1000 RJ45 port	-	-	-
100M fiber port	-	-	-
1000M fiber port	-	-	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V/AC24V	DC9~60V/AC24V	DC9~60V/AC24V
Consumption	<1.1W@DC24V	<2W@DC24V	<1.4W@DC24V
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	102*33*78	102*46*78	102*46*78
Switching Performance			
Switching bandwidth	-	-	1.6Gbps
MAC table	-	-	2K
Protocol			
EtherCAT	Support	Support	-
PROFINET	-	-	Support

Industrial Specific Switch

Industrial Control Switch			
Model	CIES205PN	CIES305PN	CIES308PN
Port Number	5	5	8
10/100 RJ45 port	5	-	-
10/100/1000 RJ45 port	-	5	8
100M fiber port	-	-	-
1000M fiber port	-	-	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V/AC24V	DC9~60V/AC24V	DC9~60V/AC24V
Consumption	<1W@DC24V	<2.1W@DC24V	<3.2W@DC24V
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	102*33*78	102*33*78	102*46*78
Switching Performance			
Switching bandwidth	1Gbps	14Gbps	16Gbps
MAC table	2K	2K	4K
Protocol			
EtherCAT	-	-	-
PROFINET	Support	Support	Support

Model	CISCOM7208TSN-2GF-6GT	CISCOM8036TSN-4XGF-24GF-8GT	CISCOM8216TSN-4XGF-4GF-80
	(CATA)	SCALAR STATES	
Port Number	8	36	16
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	6	8	8
100M fiber port	-	-	-
1000M fiber port	2	24	4
10G SFP+ fiber port	-	4	4
Gigabit combo port	-	-	-
Power			
Power input	DC9-60V AC/DC220V	AC/DC220V	DC34\/ DC49\/ AC/DC330\/
	DC9-60V, AC/DC220V <12W@DC12V		DC24V, DC48V, AC/DC220V <27W@DC48V
Consumption	<12W@AC220V	<50W@AC220V	<27W@AC220V
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
nstallation	Din Rail	Rack Mount	Din Rail
Dimension (L)*(W)*(H) mm	160*58*122	482.6*44*315	160*82.5*128
Switching Performance			
	07.01	1000	1000
Switching bandwidth MAC table	23Gbps 8K	180Gbps 32K	180Gbps 32K
	3K	3K	3K
IGMP group	3K	JK	3K
TSN			
IEEE 802.1AS/Qbu/Qbv/Qci/CB	Support	Support	Support
Layer 2 Property			
Vlan	Support	Support	Support
Qos	Support	Support	Support
LACP	Support	Support	Support
Multicast filtering	Support	Support	Support
LGMP snooping	Support	Support	Support
MLD snooping	-	-	-
Redundancy Protocol			
MW-Ring	Support	Support	Support
ERPS/EAPS	Support	Support	Support
MSTP/RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Pv4、IPv6 static routing	Support	Support	Support
RIP、OSPF	-	Support	Support
RIPng、OSPFv3	-	-	-
IGMP、PIM	-	Support	Support
VRRP	-	Support	Support
		2.2550.0	
Security			
802.1X 、AAA	Support	Support	Support
ACL	Support	Support	Support
SNMPv1/v2c/v3	Support	Support	Support
RMON	Support	Support	Support
LLDP DHCP	Support Support	Support Support	Support Support

Industrial Specific Switch

PTP Ethernet Switch			
Model	CISCOM8030PTP-6XGF-16GF-8GC	CISCOM8216PTP-4XGF-4GF-8GT	
) = (*****)		
Port Number	30	16	
10/100 RJ45 port	-	-	
10/100/1000 RJ45 port	<u>-</u>	8	
100M fiber port	16	-	
1000M fiber port	-	4	
10G SFP+ fiber port	6	4	
Gigabit combo port	8	-	
Power			
	DC10 731/ AC/DC3301/	DC20 72V AC/DC220V	
Power input	DC18-72V, AC/DC220V <47W@DC24V	DC20-72V, AC/DC220V	
Consumption	<46W@DC48V <48W@AC220V	<27W@DC48V <27W@AC220V	
Working Environment			
Operating temperature	-40°C ~+75°C	-40°C ~+70°C	
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical Parameter			
Installation	Rack Mount	Din Rail	
Dimension (L)*(W)*(H) mm	482.6*44*315	160*82.5*128	
Switching Performance			
Switching bandwidth	180Gbps	180Gbps	
MAC table	32k	32k	
IGMP group	3k	3k	
PTP			
IEEE 1558v2 、IEEE 802.1AS	Support	Support	
	Зиррогі	Зиррогі	
Layer 2 Property			
Vlan	Support	Support	
Qos	Support	Support	
LACP	Support	Support	
Multicast filtering	Support	Support	
LGMP snooping	Support	Support	
MLD snooping	Support	Support	
Redundancy Protocol			
MW-Ring	Support	Support	
ERPS/EAPS	Support	Support	
MSTP/RSTP/STP	Support	Support	
Layer 3 Software Property			
IPv4、IPv6 static routing	Support	Support	
RIP、OSPF	Support	Support	
RIPng、OSPFv3	Support	Support	
IGMP、PIM	Support	Support	
VRRP	Support	Support	
Security			
802.1X 、AAA	Support	Support	
ACL	Support	Support	
SNMPv1/v2c/v3	Support	Support	
RMON	Support	Support	
LLDP	Support	Support	
		Capport	

INDUSTRIAL Wireless

03



Industrial WiFi Switch

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CIAP354R-2A2 · · · · · · · · · · · · · · · · · ·	
CIAP354R-3A25·····	
CIAP625-3A25 · · · · · · · · · · · · · · · · · · ·	
CIAP556R-2A25 · · · · · · · · · · · · · · · · · · ·	
CIAP556R-2A25-GF · · · · · · · · · · · · · · · · · · ·	
CIAP726-4A25-GF	
CIAP2124-A2 · · · · · · · · · · · · · · · · · · ·	
CIAP2226-A25 · · · · · · · · · · · · · · · · · · ·	
CIAP716-4A25 · · · · · · · · · · · · · · · · · · ·	
CIAP716-6A25 · · · · · · · · · · · · · · · · · · ·	
CIAP716N-6A25	069
AC	
CIAC5500-2GF-AD220 · · · · · · · · · · · · · · · · · ·	07/
CIAC5200U · · · · · · · · · · · · · · · · · ·	
CIAC51000U · · · · · · · · · · · · · · · · · ·	07
4G Router	
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CIR755R-W-AU · · · · · · · · · · · · · · · · · · ·	
CIR755R-W-EUX······	
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CIR755R-W-AFX	07: 07: 07: 07:
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CIR755R-W-AFX CIR372-EC CIR372-EAU CIR375-G CIR372-D-EAU	073 073 073 073 073
CIR755R-W-AFX CIR372-EC CIR372-EAU CIR375-G CIR372-D-EAU CIR372-D-G	073 073 073 073 074 074
CIR755R-W-AFX CIR372-EC CIR372-EAU CIR375-G CIR372-D-EAU CIR372-D-G CIR373-E	07: 07: 07: 07: 07: 07:
CIR755R-W-AFX CIR372-EC CIR372-EAU CIR375-G CIR372-D-EAU CIR372-D-G	07: 07: 07: 07: 07: 07: 07: 07:

5G Router

CIR885-W 076 CIR885R 076 CIR785-W 076 CIR782 077 CIR782R 077 CIR584W-G 077	
Cellular Modem	
CGT541-E 078 CGT541R-E 078 CGT551R-E 078 CGT571-G 078 CGT571-E 079 CGT571-EAU 079	

Wireless Ethernet Bridge

CIAP3502U-GT	08
CIAP3505U-GT·····	08
Wireless Client	
vvii etess Ctiefft	
CIAP314-1A2-2D	08
CIAP325-2A25-2D · · · · · · · · · · · · · · · · · · ·	
CIAP326-2A25-2D	08
CIAP314R-1A2-485 · · · · · · · · · · · · · · · · · · ·	08
CIAP314R-1A2-232 · · · · · · · · · · · · · · · · · ·	08
CIAP315R-1A25-485 · · · · · · · · · · · · · · · · · · ·	
CIALI315P-1425-232 · · · · · · · · · · · · · · · · · ·	ΛR



Industrial Wireless

	Industrial WiFi Switc	:h
odel	CISCOM7209W-3N25-3GF-6GTPoE	CISCOM7209W-3N25-3GF-6G
		H
rt Number	9	9
100/1000 RJ45 port	-	6
100/1000 PoE RJ45 port	6	-
M fiber port	-	-
0M fiber port	3	3
SFP+ fiber port	-	-
abit Combo port	-	-
Fi Specification		
enna Standard	2.4GHz 802.11b/g/n,	5GHz 802.11a/n/ac
antity of antenna	3.46112.002.116/9/11,	
wer		
	D040 F7:	2.012.101
ver input	DC48~57V	DC12~48V
nsumption	<13W@DC48V (without PD)	<13W@DC12V
orking Environment		
erating temperature	-40°C ~+75°C	-40°C ~+75°C
bient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)
ysical Parameter		
allation	DIN Rail	DIN Rail
nension (L)*(W)*(H) mm	160*58*122	160*58*122
ritching Performance		
	24Chas	24Ch.r.s
tching bandwidth C table	24Gbps 8K	24Gbps 8K
	ON	ON
sic Function		
S/VLAN	Support	Support
t static trunk/LACP	Support	Support
1Pv1/v2/v3 multicast	Support	Support
dundancy Protocol		
/-Ring	Support	Support
PS .	Support	Support
TP(STP/RSTP)	Support	Support
yer 3 Software Property		
er 3 routing	-	-
lticast routing	-	-
RP	-	-
nagement		
MPv1/v2c/v3	Support	Support
)P	Support	Support
CP	Support	Support
DN .	Support	Support
	Support	Support
RP	Support	Support
vice management	Support	Support
J		
curity		
curity	Compart	Contract
2.1X	Support	Support
2.1X TPS/SSL	Support	Support
1X		

Industrial Wireless

Industrial WiFi Switch				
Model	CISCOM7207W-3N25-GF-6GTPoE	CISCOM7207W-3N25-GF-6GT		
Port Number	7	7		
10/100/1000 RJ45 port	-	6		
10/100/1000 PoE RJ45 port	6	-		
100M fiber port	-	-		
1000M fiber port	1	1		
10G SFP+ fiber port	-	-		
Gigabit Combo port	-	-		
WiFi Specification				
Antenna Standard	2.4GHz 802.11b/g/n	, 5GHz 802.11a/n/ac		
Quantity of antenna		3		
Power				
Power input	DC48~57V	DC12~48V		
Consumption	<13W@DC48V (without PD)	<13W@DC12V		
Working Environment				
Operating temperature	-40°C ~+75°C	-40°C ~+75°C		
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)		
Physical Parameter		3		
Installation	DIN Rail	DIN Rail		
Dimension (L)*(W)*(H) mm	160*58*122	160*58*122		
	100 30 122	100 30 122		
Switching Performance				
Switching bandwidth MAC table	24Gbps 8K	24Gbps 8K		
	UIX	OK		
Basic Function				
QoS/VLAN Port static trunk/LACP	Support	Support		
IGMPv1/v2/v3 multicast	Support Support	Support Support		
	Зарроге	Зарроге		
Redundancy Protocol				
MW-Ring EDDC	Support	Support		
ERPS MSTP(STP/RSTP)	Support Support	Support Support		
Layer 3 Software Property	σαρρύι τ	Support		
Layer 3 routing		-		
Multicast routing VRRP		-		
Management				
SNMPv1/v2c/v3 LLDP	Support	Support		
DHCP	Support Support	Support Support		
RMON	Support	Support		
GVRP	Support	Support		
GMRP	Support	Support		
Device management	Support	Support		
Security				
802.1X	Support	Support		
HTTPS/SSL	Support	Support		
Port security binding	Support	Support		
ACL	Support	Support		
RADIUS	Support	Support		



Industrial Wireless

Model CIAP354R-2A2 CIAP354R-3A25 CIAP625-3A25

	E	Bill	
Network Parameter			
Port type	RJ45	RJ45	RJ45
WAN port	10/100Base-T(X) WAN/LAN port*1	10/100Base-T(X) WAN/LAN port*1	10/100Base-T(X) WAN/LAN port*1
LAN port	10/100Base-T(X) ETH port*4	10/100Base-T(X) ETH port*4	10/100Base-T(X) LAN port*1
PoE			
IEEE802.3af/at	-	-	Support
WiFi			
Wireless standard	2.4GHz 802.11b/g/n	2.4GHz 802.11b/g/n 5GHz 802.11a/n/ac	2.4GHz 802.11b/g/n 5GHz 802.11a/n/ac
Frequency scope	2.412GHz~2.484GHz	2.412GHz~2.484GHz 5.18GHz~5.825GHz	2.412GHz~2.484GHz 5.18GHz~5.825GHz
Frequency bandwidth	20MHz/40MHz	20MHz/40MHz/80MHz	20MHz/40MHz/80MHz
Max. transmission rate	2.4GHz: 300Mbps	2.4GHz: 300Mbps 5GHz: 433Mbps	2.4GHz: 300Mbps 5GHz: 433Mbps
Antenna interface	2.4GHz antenna interfaces, SMA-K*2	2.4GHz antenna interfaces, SMA-K*2 5GHz antenna interfaces, SMA-K*1	2.4GHz antenna interfaces, N-K(female)*2 5GHz antenna interfaces, N-K(female)*1
Max. transmission power	IEEE 802.11n: 13-16dBm @HT20/40 MCS7 IEEE 802.11g: 14-17dBm @54MHz IEEE 802.11b: 16-20dBm @11MHz	IEEE 802.11ac: 12 ± 2dBm @HT80 MCS9 /5GHz band IEEE 802.11ac: 16 ± 2dBm @HT80 MCS0 /5GHz band IEEE 802.11n: 13-16dBm @HT20/40 MCS7 IEEE 802.11g: 14-17dBm @54MHz IEEE 802.11b: 16-20dBm @11MHz	PLEE 802:11ac: 12 ± 2dBm @H180 MCS9 /5G band IEEE 802:11ac: 16 ± 2dBm @HT80 MCS0 /5GHz band IEEE 802:11n: 13-16dBm @HT20/40 MCS7 IEEE 802:11g: 14-17dBm @54MHz IEEE 802:11b: 16-20dBm @11MHz
RX sensitivity	HT40 MCS7: -69dBm@10% PER(MCS7) HT20 MCS7: -71dBm@10% PER(MCS7) 54M: -75dBm@10% PER 11M: -88dBm@ 8% PER	VHT80 MCS9: -58dBm@10%PER(MCS9) /5GHz band HT40 MCS7: -69dBm@10% PER(MCS7) HT20 MCS7: -71dBm@10% PER(MCS7) 54M: -75dBm@10% PER 11M: -88dBm@ 8% PER	VHT80 MCS9: -58dBm@10%PER(MCS9) /5GHz band HT40 MCS7: -69dBm@10% PER(MCS7) HT20 MCS7: -71dBm@10% PER(MCS7) 54M: -75dBm@10% PER 11M: -88dBm@ 8% PER
Power Supply			
Power input	DC9~36V	DC9~36V	DC48V(PoE), DC42~57V input
Power consumption	<2.5W@DC12V	<3.6W@DC12V	<5W
Connection method	5.08mm pitch 2-pin terminal block	5.08mm pitch 2-pin terminal block	RJ45(WAN)
Working Environment			
Working temperature	-40°C ~+70°C	-40°C ~+75°C	-40°C ~+70°C
Relative huminity	5%~95%(non-condensing)	5%~95%(non-condensing)	5%~95%(non-condensing)
Physical			
Installation	DIN Rail	DIN Rail	Pole installation
Dimension(L)*(W)*(H) mm	118*35*88	118*35*88	242.5*198.5*82

Industrial Wireless

		AP	
Model	CIAP556R-2A25	CIAP556R-2A25-GF	CIAP726-4A25-GF
	₩.I		
Network Parameter			
Port type	RJ45	WAN (RJ45), LAN (SFP)	WAN (RJ45), LAN (SFP)
WAN port	10/100Base-T(X) WAN/LAN port*1	10/100Base-T(X) WAN/LAN port*1	10/100Base-T(X) WAN/LAN port*1
LAN port	10/100Base-T(X) ETH port*4	10/100Base-T(X) ETH port*4	10/100Base-T(X) LAN port*1
PoE			
IEEE802.3af/at	Support	_	Support
WiFi	баррол		Сиррогі
Wireless standard	Wi-Fi 6 2.4GHz 802.11b/g/n/ax 5GHz 802.11a/n/ac/ax	Wi-Fi 6 2.4GHz 802.11b/g/n/ax 5GHz 802.11a/n/ac/ax	2.4GHz 802.11b/g/n 5GHz 802.11a/n/ac
Frequency scope	DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64- QAM, 256-QAM, 1024-QAM	DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64- QAM, 256-QAM, 1024-QAM	DBPSK, DQPSK, CCK, OFDM, 16-QAM, 6 QAM, 256-QAM, 1024-QAM
Frequency bandwidth	20MHz/40MHz/80MHz/160MHz	20MHz/40MHz/80MHz/160MHz	20MHz/40MHz/80MHz/160MHz
Max. transmission rate	2.4GHz: 574Mbps 5GHz: 2402Mbps	2.4GHz: 574Mbps 5GHz: 2402Mbps	2.4GHz: 574Mbps 5GHz: 2402Mbps
Antenna interface	2.4GHz/5GHz antenna interface, SMA-K*2	2.4GHz/5GHz antenna interface, SMA-K*2	2.4GHz antenna interfaces, N-K(female) 5GHz antenna interfaces, N-K(female)
	2.4GHz: +17dBm HE40 at -47dB DEVM +22dBm HE40 at -43dB DEVM +24.5dBm MCS9 HT40 at -35dB DEVM +26dBm MCS7 HT20/40 at -30dB DEVM +28dBm MCS0 HT20	2.4GHz: +17dBm HE40 at -47dB DEVM +22dBm HE40 at -43dB DEVM +24.5dBm MCS9 HT40 at -35dB DEVM +26dBm MCS7 HT20/40 at -30dB DEVM +28dBm MCS0 HT20	2.4GHz: +17dBm HE40 at -47dB DEVM +22dBm HE40 at -43dB DEVM +24.5dBm MC59 HT40 at -35dB DEVI +26dBm MC57 HT20/40 at -30dB DEVI +28dBm MC50 HT20
Max. transmission power	5GHz: +19dBm MCS11 HE160 at -43dB DEVM +16dBm MCS11 HE80 at -47dB DEVM +18dBm MCS11 HE80 at -43dB DEVM +23dBm MCS9 VHT80 at -35dB DEVM +24dBm MCS7 HT20/40 at -30dB DEVM +26dBm MCS0 HT20	5GHz: +19dBm MCS11 HE160 at -43dB DEVM +16dBm MCS11 HE80 at -47dB DEVM +18dBm MCS11 HE80 at -43dB DEVM +23dBm MCS9 VHT80 at -35dB DEVM +24dBm MCS7 HT20/40 at -30dB DEVM +26dBm MCS0 HT20	5GHz: +19dBm MCS11 HE160 at -43dB DEVM +16dBm MCS11 HE80 at -47dB DEVM +18dBm MCS11 HE80 at -43dB DEVM +23dBm MCS9 VHT80 at -35dB DEVM +24dBm MCS7 HT20/40 at -30dB DEVI +26dBm MCS0 HT20
	2.4GHz: -69.0dBm(VHT40/ MCS9/ 2SS) -63.0dBm(VHT40/ MCS11/ 2SS) -68.5dBm(HT40/ MCS9/ 2SS) -63.0dBm(HE40/ MCS11/ 2SS)	2.4GHz: -69.0dBm(VHT40/ MCS9/ 2SS) -63.0dBm(VHT40/ MCS11/ 2SS) -68.5dBm(HT40/ MCS9/ 2SS) -63.0dBm(HE40/ MCS11/ 2SS)	2.4GHz: -69.0dBm(VHT40/ MCS9/ 2SS) -63.0dBm(VHT40/ MCS11/ 2SS) -68.5dBm(HT40/ MCS9/ 2SS) -63.0dBm(HE40/ MCS11/ 2SS)
RX sensitivity	5GHz: -64.5dBm(VHT80/ MCS9/ 2SS) -59.0dBm(VHT80/ MCS11/ 2SS) -64.0dBm(HE80/ MCS9/ 2SS) -58.0dBm(HE80/ MCS11/ 2SS) -58dBm(HE80/ MCS19/ 2SS)	5GHz: -64.5dBm(VHT80/ MCS9/ 2SS) -59.0dBm(VHT80/ MCS11/ 2SS) -64.0dBm(HE80/ MCS9/ 2SS) -58.0dBm(HE80/ MCS11/ 2SS) -58dBm(HE80/ MCS9/ 2SS)	5GHz: -64.5dBm(VHT80/ MCS9/ 2SS) -59.0dBm(VHT80/ MCS11/ 2SS) -64.0dBm(HE80/ MCS9/ 2SS) -58.0dBm(HE80/ MCS11/ 2SS) -58dBm(HE160/ MCS9/ 2SS)
Power Supply			
Power input	Dual DC12~60V power input	Dual DC12~60V power input	DC48V(PoE), DC42~57V input
Power consumption	<12.5W@DC12V	<14.5W@DC12V	<16W
Connection method	5.08mm pitch 5-pin terminal block	5.08mm pitch 5-pin terminal block	RJ45(WAN)
Working Environment			
Working temperature	-40°C ~+70°C	-40°C ~+70°C	-40°C ~+70°C
Relative huminity	5%~95%(non-condensing)	5%~95%(non-condensing)	5%~95%(non-condensing)

DIN Rail

140*54*110

Pole installation

242.5*198.5*82

DIN Rail

140*54*110

066

Physical

Installation

Dimension(L)*(W)*(H) mm

Industrial Wireless

Model CIAP2124-A2





Network Parameter			
Port type	RJ45		
WAN port	10/100Base-T(X) WAN/LAN port*1		
LAN port	10/100Base-T(X) LAN port*1		
PoE			
IEEE802.3af/at	Support		
RF			
CPU	Qualcomm-Atheros QCA9531		
Wireless rate	300Mbps		
Modulation	DSSS/CCK BPSK/QPSK OFDM BPSK/QPSK/16-QAM/64-QAM		
DDR	64M		
Flash	16M		
RF interface	U.FL*2		
Wireless protocol	802.11g/n		
Wireless frequency	2.4G		
Power consumption	26dBm@2.4G		
Frequency	2412MHz-2482MHz		
RX sensitivity	Up to -96dBm		
Channel bandwidth	20MHz/40MHz(adjustable)		
Working Environment			
Working temperature	-40°C ~+65°C		
Relative huminity	5%~95%(non-condensing)		
Physical			
Installation	Ceiling mounting		
Dimension(L)*(W)*(H) mm	204*20 mm(Φ× H)		

Industrial Wireless

		AP		
Model	CIAP2226-A25	CIAP716-4A25	CIAP716-6A25	CIAP716N-6A25

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Network Parameter				
Port type	RJ45	RJ45	RJ45	RJ45
WAN port	10/100/1000Base-T(X) WAN/LAN port*1	10/100/1000Base-T(X) WAN/LAN port*1	10/100/1000Base-T(X) WAN/LAN port*1	10/100/1000Base-T(X) WAN/L port*1
LAN port	10/100/1000Base-T(X) LAN port*1	-	-	-
PoE				
IEEE802.3af/at	Support	Support	Support	Support
Cellular Network				
Working frequency	-	-	-	5G SA: n1/3/5/8/28/41/78/7 5G NSA: n41/78/79 LTE-FDD: B1/3/5/8 LTE-TDD: B34/38/39/40/4 WCDMA: B1/8
Speed	-	-	-	5G SA: DL 2.4 Gbps; UL 900 N 5G NSA: DL 3.3 Gbps; UL 5 Mbps
Antenna interface	-	-	-	Mini-SIM card slot, self-popu
SIM card	-	-	-	Built-in high-gain antennas
WiFi				
Wireless standard	Wi-Fi 6 2.4GHz 802.11b/g/n/ax 5GHz 802.11a/n/ac/ax	Wi-Fi 6 2.4GHz 802.11b/g/n/ax 5GHz 802.11a/n/ac/ax	Wi-Fi 6 2.4GHz 802.11b/g/n/ax 5GHz 802.11a/n/ac/ax	Wi-Fi 6 2.4GHz 802.11b/g/n/ax 5GHz 802.11a/n/ac/ax
Frequency scope	2.412GHz~2.484GHz 5.18GHz~5.825GHz	2.412GHz~2.484GHz 5.18GHz~5.825GHz	2.412GHz~2.484GHz 5.18GHz~5.825GHz	2.4GHz~2.483GHz 5.15-5.25GHz 5.25GHz-5.35GHz 5.725GHz-5.850GHz
Frequency bandwidth	40MHz/80MHz/160MHz	40MHz/80MHz/160MHz	40MHz/80MHz/160MHz	40MHz/80MHz/160MHz
Max. transmission rate	2.4GHz: 574Mbps 5GHz: 2402Mbps	2.4GHz: 574Mbps 5GHz: 2402Mbps	2.4GHz: 574Mbps 5GHz: 2402Mbps	2.4GHz: 573.5Mbps 5GHz: 2474Mbps+4804Mb
Antenna interface	Internal high gain antennas*4	2.4GHz antenna interfaces, N-K(female)*2 5GHz antenna interfaces, N-K(female)*4	2.4GHz antenna interfaces, N-K(female)*2 5GHz antenna interfaces, N-K(female)*4	2.4GHz antenna interface N-K(female)*2 5GHz antenna interfaces N-K(female)*4
Max. transmission power	24dBm	27dBm	27dBm	27dBm
RX sensitivity	-65dBm	2.4G: -65dBm 5G: -56dBm	2.4G: -65dBm 5G: -56dBm	2.4G: -65dBm 5G: -56dBm
Power Supply				
Power input	DC48V(PoE), DC42~57V input	DC48V(PoE), DC42~57V input	DC48V(PoE), DC42~57V input	DC48V(PoE), DC42~57V inp
Power consumption	<15W	<15W	<15W	<15W
Connection method	RJ45(WAN)	RJ45(WAN)	RJ45(WAN)	RJ45(WAN)
Working Environment				
Working temperature	0°C ~ +40°C	0°C ~ +70°C	0°C ~ +70°C	0°C ~ +70°C
Relative huminity	5%~95%(non-condensing)	5%~95%(non-condensing)	5%~95%(non-condensing)	5%~95%(non-condensing
Physical				
Installation Dimension(L)*(W)*(H) mm	Ceiling Mount 190*190*42	Ceiling Mount 245*200*90	Wall Mount 263.6*198.46*82	Wall Mount 263.6*198.46*82



	AC
Model	CIAC5500-2GF-AD220



nterface	
IG fiber port	1000Base-X SFP slot*2
1G copper port	10/100/1000Base-T(X) RJ45 port*8
USB	Type-A USB 3.0*2
CONSOLF	1 CONSOLE port, reserved
VGA	1 VGA interface/female)
COM	1 DB9M interface, reserved
System	
CPU	Intel Core i3-3110M, dual-core, four-thread, 2.4GHz
OS	Openwrt
Memory	4G DDR3
Storage	32G mSATA solid-state drive(supports expansion of 2 SATA solid-state drives)
Graphics card	Integrated intel HD Graphics 610/620 core graphics card
Network card	Intel i211 10/100/1000M × 8, Intel i350 × 2
Expansion slot	Support 1 MINI PCIE channel
RF	
Management	Support centralized management of wireless AP devices, AP access history, and link modes Support wireless AP list and grouping, wireless terminal list and black and white list filtering Support wireless AP batch upgrade and single AP upgrade verification Support AP network time, network password, network restart, network factory reset, and AC online monitoring Support internal and external network settings, DHCP server, static routing, VLAN settings, and status monitoring Support VPN protocol, PPTP/L2TP/TUN/TAP client and PPTP/L2TP/IPSec server
Access control	Support SYN-flood defense, IP dynamic camouflage, MSS clamping, inbound/outbound data control Support port forwarding, access restrictions, DMZ host, NAT conversion, ARP binding, network speed control
Management and maintenance	Support dynamic DNS, SNMPv1/v2c, SNMPv1/v2c Trap Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, and capture network packets Support user rights management, SSH access, NTP client/server, remote/local logs Support online restart, scheduled restart, configuration backup/restore, firmware flash, and factory settings restore
Power Supply	
Power input	AC110~240V
Connection method	AC socket with switch and fuse
Working Environment	
Working temperature	-40°C ~+65°C
Relative huminity	5%-95%(non-condensing)
Physical	
Installation	Rack Mount
	AC socket with switch and fuse

Industrial Wireless

AC		
Model	CIAC5200U	CIAC51000U





Interface		
Network port type	RJ45	RJ45
WAN port	10/100/1000Base-T(X) port *1	10/100/1000Base-T(X) port *1
LAN port	10/100/1000Base-T(X) port*4 48V PoE out, IEEE 802.3af, IEEE 802.3at standard	10/100/1000Base-T(X) port*4
CONSOLE	Micro USB*1	RJ45*1
USB	-	USB2.0*1+USB3.0*1
PoE	Support	-
System		
CPU	MTK MT7621AT	MTK MT7621AT
OS	OpenWrt	OpenWrt
Memory	DDR3 2Gbit	DDR3 2Gbit
Storage	Nor Flash 64Mbit	Nor Flash 64Mbit
Graphics card	-	-
Network card	-	-
Expansion slot	-	-
RF		
Management	Router mode, AP mode HTTP Web based GUI Local or online Firmware upgrade Configuration Backup / Restore Centrally managed through cloud	HTTP Web based GUI Local or online Firmware upgrade Configuration Backup/Restore Centrally managed through cloud
Access control	AP&mac management, user authentication	AP&mac management, user authentication, ACL, network centralized control
Management and maintenance	WEB/Cloud	WEB/Cloud
Power Supply		
Power input	100~240VAC, 50/60Hz	100~240VAC, 50/60Hz
Connection method	≤ 5W	≤ 12W
Working Environment		
Working temperature	0°C ~45°C	0°C ~45°C
Relative huminity	5~95 %(non-condensing)	5~95 %(non-condensing)
Physical		
Installation	DIN Rail	Desktop/1U Rack Mount



		4G Router			
Model	CIR755R-W	CIR755R-W-AU	CIR755R-W-EUX	CIR755R-W-AFX	
Network Parameter					
Port type		RJ	45		
WAN port		10/100Base-T(X)	WAN/LAN port*1		
LAN port		10/100Base-T((X) LAN port*4		
Serial Port					
Port type		RS4	85*1		
Connection method		5.08mm pitch 5-p	oin terminal block		
Baud rate			30400bps		
Isolation voltage			-		
WiFi					
Quantity of antenna	2				
Working frequency		2.4GHz (2.412G	6Hz~2.484GHz)		
Antenna interface		SM	A-K		
Max. transmision rate	802.11b: 17dBm~19dBm@11Mbps 802.11g: 15dBm~18dBm@54Mbps 802.11n: 15dBm~18dBm@MCS7 HT20/40				
Cellular Network					
Network standard	LTE-FDD, LTE-TDD, WCDMA, GSM/EDGE				
Working frequency	LTE-FDD: B1/3/5/8 LTE-FDD: B1/2/3/4/5/7/8/28/66 LTE-FDD: B1/3/7/8/20/28A LTE-FDD: B2/4/5/12/5 LTE-TDD: B34/38/39/40/41 LTE-TDD: B40 LTE-TDD: B38/40/41 LTE-TDD: TDD: WCDMA: B1/5/8 WCDMA: B1/2/4/5/8 WCDMA: B1/8 WCDMA: B2/4 GSM/EDGE: B3/8 GSM/EDGE: B2/3/5/8 GSM/EDGE: B3/8 GSM/EDGE				
Quantity of antenna		1/	2		
Antenna interface		SM.	A-K		
SIM card		Dual Nano SIM*1, dua	l cards single standby		
Max. transmision rate	LTE-FDD: DL 150Mbps/UL 50Mbps LTE-TDD: DL 130Mbps/UL 30Mbps HSPA+: DL 21Mbps/UL 5.76Mbps WCDMA: DL/UL 384 kbps EDGE: DL/UL 236.8 kbps GRPS: DL/UL 85.6 kbps				
Power Supply					
Power input		DC9	~36V		
Power consumption		<7W@	DC24V		
Connection method			oin terminal block		
Power protection		No po	olarity		
Working Environment					
Operating temperature		-40°C ·	~+70°C		
Relative huminity		5%~95% (non	-condensing)		
Physical					
Installation		DIN	Rail		
	140*35*110				

Industrial Wireless

4G Router				
Model	CIR372-EC	CIR372-EAU	CIR375-G	
		A SUPLEM	EQUALITY OF	
Network Parameter				
Port type	RJ45	RJ45	RJ45	
WAN port	-	-	WAN+1*WAN/LAN port, 10/100Base-T(X)*	
LAN port	10/100Base-T(X) LAN port*1	10/100Base-T(X) LAN port*1	10/100Base-T(X) LAN port*3	
Serial Port				
Port type	-	_	_	
Connection method	-	_	_	
Baud rate	-	-	-	
Isolation voltage	-	-	-	
WiFi				
Quantity of antenna	-	-	1	
Working frequency	-	-	802.11b/g/n (2.4GHz)	
Antenna interface	-	-	SMA-K	
Max. transmision rate	-	-	150Mbps	
Cellular Network				
Network standard	LTE-FDD, LTE-TDD, WCDMA, GSM/EDGE	LTE-FDD, LTE-TDD, WCDMA, GSM/EDGE	LTE-FDD, LTE-TDD, WCDMA, GSM/EDGE	
Working frequency	LTE-FDD: B1/3/7/8/20/28A LTE-TDD: B38/40/41 WCDMA: B1/8 GSM/EDGE: B3/8	LTE-FDD: B1/2/3/4/5/7/8/28 LTE-TDD: B40 WCDMA: B1/2/4/5/8 GSM/EDGE: B2/3/5/8	LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25 6/28/66; LTE-TDD: B34/38/39/40/41; WCDMA: B1/2/4/5/6/8/19; GSM/EDGE: B2/3/5/8;	
Quantity of antenna	1	1	1	
Antenna interface	SMA-K	SMA-K	SMA-K	
SIM card	(3V/1.8V) standard 2FF SIM*1	(3V/1.8V) standard 2FF SIM*1	2*(3V/1.8 V) Nano-SIM(4FF) Push-push ty slot	
Max. transmision rate	LTE-FDD (Mbps): downlink 150Mbps/uplink 50Mbps FDD-LTE: downlink 150Mbps/uplink 50Mbps	LTE-FDD (Mbps): downlink 150Mbps/uplink 50Mbps FDD-LTE: downlink 150Mbps/uplink 50Mbps	LTE-FDD (Mbps) :150 (DL)/50 (UL) LTE-TDD (Mbps) :130 (DL)/30 (UL)	
Power Supply				
Power input	DC9~36V	DC9~36V	DC9~36V	
Power consumption	35W	4.5W	3.5W	
Connection method	5.5*2.1mm Round socket or 2-pin industrial terminal block	5.5*2.1mm Round socket or 2-pin industrial terminal block	DC Power Jack Barrel Type Female 5.5*2.1r Round socket	
Power protection	No polarity	No polarity	Anti-reverse protection	
Working Environment				
Operating temperature	20°C ~70°C	20°C ~70°C	-20°C ~+70°C	
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical				
Installation	Wall Mount	Wall Mount	Wall Mount	
	Trail France	Trail Tourit	Tak Tourit	

Model CIR372-D-EAU CIR372-D-G





Network Parameter		
Port type	RJ45	RJ45
WAN port	10/100Base-T(X) WAN/LAN port*1	10/100Base-T(X) WAN/LAN port*1
LAN port	10/100Base-T(X) LAN port*1	10/100Base-T(X) LAN port*1
Serial Port		
Port type	RS485*1	RS485*1
Connection method	3.81mm pitch 3-pin terminal block	3.81mm pitch 3-pin terminal block
Baud rate	1200bps-230400bps	1200bps-230400bps
Isolation voltage	-	-
WiFi		
Quantity of antenna	1	1
Working frequency	IEEE 802.11b/g/n (2.4GHz)	IEEE 802.11b/g/n (2.4GHz)
Antenna interface	SMA-K	SMA-K
Max. transmision rate	IEEE 802.11b/g, up to 54Mbps IEEE 802.11n, up to 150Mbps	IEEE 802.11b/g, up to 54Mbps IEEE 802.11n, up to 150Mbps
Cellular Network		
Network standard	LTE-FDD, LTE-TDD, WCDMA, GSM/EDGE	LTE-FDD, LTE-TDD, WCDMA, GSM/EDGE
Working frequency	TDD-LTE: B38/B40/B41 FDD-LTE: B1/B3/B5/B7/B8/B20/B28 WCDMA: B1/B5/B8 GSM/GPRS/EDGE: 850/900/1800MHz	LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66; LTE-TDD: B34/38/39/40/41; WCDMA: B1/2/4/5/6/8/19; GSM/EDGE: B2/3/5/8;
Quantity of antenna	1	1
Antenna interface	SMA-K	SMA-K
SIM card	2FF SIM*1	2FF SIM*1
Max. transmision rate	LTE-FDD: DL 150Mbps/ UL 50Mbps LTE-TDD: DL 130Mbps/ UL 30Mbps HSPA+: DL 131Mbps/ UL 5.76Mbps WCDMA: DL / UL 384 kbps EDGE: DL / UL 236.8 kbps GRPS: DL / UL 85.6 kbps	LTE-FDD: DL 150Mbps/ UL 50Mbps LTE-TDD: DL 130Mbps/ UL 30Mbps HSPA+: DL 21Mbps/ UL 5.76Mbps WCDMA: DL / UL 384 kbps EDGE: DL / UL 236.8 kbps GRPS: DL / UL 85.6 kbps
Power Supply		
Power input	DC9~36V	DC9~36V
Power consumption	3.5W	3.5W
Connection method	5.08mm pitch 2-pin terminal block	5.08mm pitch 2-pin terminal block
Power protection	No polarity	No polarity
Working Environment		
Operating temperature	-20°C ~+70°C	-20°C ~+70°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical		
Installation	Wall Mount	Wall Mount
Dimension (L)*(W)*(H) mm	112*90*25	112*90*25

Industrial Wireless

4G Router			
Model	CIR373-E	CIR373-AU	CIR373-G
Network Parameter			

Network Parameter			
Port type	RJ45	RJ45	RJ45
WAN port	10/100Base-T(X) WAN/LAN port*1	10/100Base-T(X) WAN/LAN port*1	10/100Base-T(X) WAN/LAN port*1
LAN port	10/100Base-T(X) LAN port*1	10/100Base-T(X) LAN port*1	10/100Base-T(X) LAN port*1
Serial Port			
Port type	-	-	-
Connection method	-	-	-
Baud rate	-	-	-
Isolation voltage	-	-	-
WiFi			
Quantity of antenna	2	2	2
Working frequency	IEEE 802.11b/g/n (2.4GHz)	IEEE 802.11b/g/n (2.4GHz)	IEEE 802.11b/g/n (2.4GHz)
Antenna interface	RP-SMA-K	RP-SMA-K	RP-SMA-K
Max. transmision rate	IEEE 802.11b/g, up to 54Mbps IEEE 802.11n, up to 150Mbps	IEEE 802.11b/g, up to 54Mbps IEEE 802.11n, up to 150Mbps	IEEE 802.11b/g, up to 54Mbps IEEE 802.11n, up to 150Mbps
Cellular Network			
Network standard	LTE-FDD, LTE-TDD, WCDMA, GSM/EDGE	LTE-FDD, LTE-TDD, WCDMA, GSM/EDGE	LTE-FDD, LTE-TDD, WCDMA, GSM/EDG
Working frequency	LTE-FDD: B1/3/7/8/20/28A LTE-TDD: B38/40/41 WCDMA: B1/8 GSM/EDGE: B3/8	LTE-FDD: B1/2/3/4/5/7/8/28 LTE-TDD: B40 WCDMA: B1/2/4/5/8 GSM/EDGE: B2/3/5/8	LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/2 6/28/66; LTE-TDD: B34/38/39/40/41; WCDMA: B1/2/4/5/6/8/19; GSM/EDGE: B2/3/5/8;
Quantity of antenna	1	1	1
Antenna interface	SMA-K	SMA-K	SMA-K
SIM card	(3V&1.8 V) standard 4FF SIM*1	(3V&1.8 V) standard 4FF SIM*1	(3V&1.8 V) standard 4FF SIM*1
Max. transmision rate		TDD-LTE: downlink 130Mbps/uplink 30Mbps FDD-LTE: downlink 150Mbps/uplink 50Mbps EDGE: downlink 296kbps/uplink 236.8kbps	TDD-LTE: downlink 130Mbps/uplink 30Ml FDD-LTE: downlink 150Mbps/uplink 50Ml EDGE: downlink 296kbps/uplink 236.8kb
Power Supply			
Power input	DC9~36V	DC9~36V	DC9~36V
Power consumption	3.5W	3.5W	3.5W
Connection method	5.5*2.1mm round socket or 2-pin industrial terminal block	5.5*2.1mm round socket or 2-pin industrial terminal block	5.5*2.1mm round socket or 2-pin industr terminal block
Power protection	No polarity	No polarity	No polarity
Working Environment			
Operating temperature	-20°C ~+70°C	-20°C ~+70°C	-20°C ~+70°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical			
Installation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	104*102*28	104*102*28	104*102*28

Dimension (L)*(W)*(H) mm

Industrial Wireless

Model CIR885-W CIR885R CIR785-W

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Network Parameter			
Port type	RJ45	RJ45	RJ45
WAN port	10/100/1000Base-T(X) WAN/LAN port*1	10/100/1000Base-T(X) WAN/LAN port*1	10/100/1000Base-T(X) WAN/LAN port*1
LAN port	10/100/1000Base-T(X) LAN port*4	10/100/1000Base-T(X) LAN port*4	10/100/1000Base-T(X) LAN port*4
Serial Port			
Port type	RS485*1+RS232*1	RS232*2 or RS485*2	RS232/RS485*1
Connection method	5.08mm pitch 5-pin terminal block	3.81mm pitch 6-pin terminal block	5.08mm pitch 5-pin terminal block
Baud rate	300bps-230400bps	300bps-115200bps	300bps-230400bps
Isolation voltage	-	2kVAC/3kVAC	-
WiFi			
Quantity of antenna	2	-	2
Antenna standard	WiFi 6 2.4GHz 802.11b/g/n/ax 5GHz 802.11a/n/ac/ax	-	802.11b/g/n
Antenna interface	SMA-K	-	SMA-K
Max. transmision rate	2.4GHz: 574Mbps 5GHz: 1201Mbps	-	802.11b: 11Mbps 802.11g: 54Mbps 802.11n(HT20): 150Mbps
Cellular Network			
Network standard	5G NR SA/NSA, LTE-FDD, LTE-TDD, WCDMA	5G NR SA/NSA, LTE-FDD, LTE-TDD, WCDMA	5G NR SA/NSA, LTE-FDD, LTE-TDD, WCD
Quantity of antenna	4	4	4
Antenna interface	SMA-K	SMA-K	SMA-K
SIM card	SIM(1.8V/3V)*2, dual cards single standby	dual Nano SIM*1, dual cards single standby	SIM(1.8V/3V)*2, dual cards single standb
Working frequency	5G NR SA: n1/3/5/8/28A/41/77/78/79 5G NR NSA: n41/78/79 LTE-FDD: B34/38/39/40/41 WCDMA: B1/5/8	5G NR SA: n1/3/5/8/28A/41/77/78/79 5G NR NSA: n41/78/79 LTE-FDD: B1/3/5/8 LTE-TDD: B34/38/39/40/41 WCDMA: B1/5/8	5G NR SA: n1/3/5/8/28A/41/77/78/79 5G NR NSA: n41/78/79 LTE-FDD: B1/3/5/8 LTE-TDD: B34/38/39/40/41 WCDMA: B1/5/8
MIMO	DL 4 × 4: n1/28A/41/77/78/79 UL 2 × 2: n41/77/78/79 DL 2 × 2: n3/5/8, LTE	DL 4 × 4: n1/41/77/78/79 UL 2 × 2: n41/77/78/79 DL 2 × 2: n3/5/8, LTE	DL 4 × 4: n1/41/77/78/79 UL 2 × 2: n41/77/78/79 DL 2 × 2: n3/5/8, LTE
Max. transmision rate	11Mbps	5G SA Sub-6: DL 2Gbps/ UL 1Gbps 5G NSA Sub-6: DL 2.2Gbps/ UL 575Mbps LTE: DL 600Mbps/ UL 150Mbps UMTS (DC-HSDPA/HSUPA): DL 42.2Mbps/ UL 11Mbps	11Mbps
Max. transmision power	WCDMA: DL / UL 384 kbps 5G NR n1/3/5/8/41: 23dBm ± 2dB 5G NR n28A: 23dBm+2/-2.5dB 5G NR n7/7/8/79: 23dBm+2/-3dB 5G NR n41/77/8/79 HPUE: 26dBm+2/-3dB LTE: 23dBm ± 2dB WCDMA: 23dBm ± 2dB	WCDMA: DL / UL 384 kbps 5G NR n1/3/5/8/41: 23dBm ± 2dB 5G NR n28A: 23dBm+2/-2.5dB 5G NR n77/78/79: 23dBm+2/-3dB 5G NR n41/77/8/79 HPUE: 26dBm+2/-3dB LTE: 23dBm ± 2dB WCDMA: 23dBm ± 2dB	WCDMA: DL / UL 384 kbps 5G NR n1/3/5/8/41: 23dBm ± 2dB 5G NR n28A: 23dBm+2/-2.5dB 5G NR n7/7/8/79: 23dBm+2/-3dB 5G NR n41/7/7/8/79 HPUE: 26dBm+2/-3d LTE: 23dBm ± 2dB WCDMA: 23dBm ± 2dB
Power Supply			
Power input	DC9~36V	DC9~60V	DC9~36V
Power consumption	<11W@DC12V	<12.2W@DC12V	<4@DC12V
Connection method	2-position 5.08mm pitch terminal block	5-position 5.08mm pitch terminal block	2-position 5.08mm pitch terminal block
Power protection	No polarity	No polarity	No polarity
Working Environment			
Operating temperature	-40°C ~+75°C	-20°C ~+70°C	-20°C ~+70°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical			
Installation	Wall Mount	DIN Rail	Wall Mount

Industrial Wireless

5G Router					
Model	CIR782	CIR782R	CIR584W-G		
		B			
Network Parameter					
Port type	RJ45	RJ45	RJ45		
WAN port	10/100Base-T(X) WAN/LAN port*1	10/100Base-T(X) WAN/LAN port*1	10/100/1000Base-T(X) WAN/LAN port*1		
LAN port	10/100Base-T(X) LAN port*1	10/100Base-T(X) LAN port*1	10/100/1000Base-T(X) LAN port*3		
Serial Port					
Port type	RS232/RS485*1	RS232/RS485*1	RS232/RS485*1		
Connection method	3.81mm pitch 7-pin terminal block	3.81mm pitch 7-pin terminal block	Terminal block		
Baud rate	300bps-230400bps	300bps-230400bps	1200bps-460800bps		
Isolation voltage	-	-	-		
WiFi					
Quantity of antenna	-	-	2		
Antenna standard	_	_	802.11a/n/ac (5.8GHz)		
			802.11b/g/n (2.4GHz)		
Antenna interface	-	-	SMA-K		
Max. transmision rate	-	-	5.8GHz: 1733Mbps		
Cellular Network					
Network standard		5G NR SA/NSA, LTE-FDD, LTE-TDD, WCDMA			
Quantity of antenna	4	4	4		
Antenna interface	SMA-K	SMA-K	SMA-K (3 V/1.8 V) mini-SIM(2FF) Push-push typ		
SIM card	SIM(1.8V/3V)*2, dual cards single standby	dual Nano SIM*1, dual cards single standby	slot*2		
Working frequency	5G NR SA: n1/41/77/78/79 5G NR NSA: n41/78/79 LTE-FDD: B1/2/3/5/7/8 LTE-TDD: B34/38/39/40/41 WCDMA: B1/2/5/8	5G NR SA: n1/3/5/8/28A/41/77/78/79 5G NR NSA: n41/78/79 LTE-FDD: B1/3/5/8 LTE-TDD: B34/38/39/40/41 WCDMA: B1/5/8	5G NR sub-6 GHz (3GPP Rel-16) Band(NA/NSA): n1/2/3/5/7/8/12/13/14/18/2t 5/26/28/29/30/38/40/41/48/66/70/71/75/76/ 7/81/79; 4G LTE (CAT 19 DL / CAT 18 UL) LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/ 25/26/28/29/30/32/66/71; LTE-TDD: B34/38/39/40/41/42/43/48; LAA: B46;		
MIMO	DL 4 × 4: n1/41/77/78/79 UL 2 × 2: n41/77/78/79 DL 2 × 2: n3/5/8, LTE	DL 4 × 4: n1/41/77/78/79 UL 2 × 2: n41/77/78/79 DL 2 × 2: n3/5/8, LTE	2x2		
Max. transmision rate	5G SA Sub-6: DL 2Gbps/ UL 1Gbps 5G NSA Sub-6: DL 2.2Gbps/ UL 575Mbps LTE: DL 600Mbps/ UL 150Mbps UMTS (DC-HSDPA/HSUPA): DL 42.2Mbps/ UL 11Mbps WCDMA: DL / UL 384 kbps	5G SA Sub-6: DL 2Gbps/ UL 1Gbps 5G NSA Sub-6: DL 2.2Gbps/ UL 575Mbps LTE: DL 600Mbps/ UL 150Mbps UMTS (DC-HSDPA/HSUPA): DL 42.2Mbps/ UL 11Mbps WCDMA: DL / UL 384 kbps	5G SA Sub-6: Max. 2.4Gbps (DL)/Max. 900Mbps (UL); 5G NSA Sub-6: Max. 3.4Gbps (DL)/Max. 550Mbps (UL) LTE-FDD: Max. 1.6Gbps (DL)/Max. 200Mbp (UL)		
Max. transmision power	5G NR n1/3/5/8/41: 23dBm ± 2dB 5G NR n28A: 23dBm+2/-2.5dB 5G NR n7/7/8/79: 23dBm+2/-3dB 5G NR n41/77/8/79 HPUE: 26dBm+2/-3dB LTE: 23dBm ± 2dB WCDMA: 23dBm ± 2dB	5G NR n1/3/5/8/41: 23dBm ± 2dB 5G NR n28A: 23dBm+2/-2.5dB 5G NR n77/78/79: 23dBm+2/-3dB 5G NR n41/77/78/79 HPUE: 26dBm+2/-3dB LTE: 23dBm ± 2dB WCDMA: 23dBm ± 2dB	23 dBm		
Power Supply					
Power input	DC9~36V	DC9~60V	DC9~36V		
Power consumption	<6.5W@DC24V	<6.5W@DC24V	3.5W		
Connection method	2-position 5.08mm pitch terminal block	7-position 3.18mm pitch terminal block	5.5*2.1mm Round socket or industrial term		
Power protection	No polarity	No polarity	block No polarity		
Working Environment	polarty	potarity	. to potanty		
	-40°C 17F°C	-40°C 175°C	-ZEOC 17F0C		
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-35°C ~+75°C		
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)		
Physical					
Installation	Wall Mount	DIN Rail	DIN Rail		
Dimension (L)*(W)*(H) mm	162*95*29	118*35*88	125*103*45		



Industrial Wireless

Celluar Modem					
Model	CGT541-E	CGT541R-E	CGT551R-E	CGT571-G	
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Serial Port					
Num. of ports	RS232/RS485*1	RS485*1	RS485*1	RS232/RS485*1	
Connection method	DB9 for RS232, terminal block for RS485	Industrial terminal block	Industrial terminal block	Industrial terminal block	
Baud rate	1200bps-230400bps	2400bps-230400bps	2400bps-230400bps	2400bps-460800bps	
4G Cellular					
Quantity of antenna	1	1	1	1	
Antenna interface	SMA-K	SMA-K	SMA-K	SMA-K	
SIM card	1.8V/3V(with slot)	1.8V/3V(with slot)	1.8V/3V(with slot)	1.8V/3V(with slot)	
Working frequency	LTE-FDD: B1/3/7/8/20/28 LTE-TDD: B38/40/41 WCDMA: B1/8 GSM/EDGE: B3/8	LTE-FDD: B1/3/7/8/20/28 LTE-TDD: B38/40/41 WCDMA: B1/8 GSM/EDGE: B3/8	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/ B12/B13/B18/B19/B20/B25/B26/ B28 LTE-TDD: B38/B39/B40/B41 UMTS: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8	LTE-FDD: B1/B2/B3/B4/B5/B7/B8 B12/B13/B18/B19/B20/B25/B26/ B28 LTE-TDD: B38/B39/B40/B41 UMTS: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8	

Power Supply					
Power input	DC9~36V	DC9~36V	DC9~36V	DC9~36V	
Power consumption	<2.8W	<3W	<1.2W	<1W	
Connection method	DC 5.0 Jack/Terminal	Terminal	Terminal	Industrial terminal block	
Power protection	Anti-reverse protection	Anti-reverse protection	Anti-reverse protection	Anti-reverse protection	
Working Environment					
Operating temperature	-35°C∼ +75°C	-35°C∼ +75°C	-35°C∼ +75°C	-35°C∼ +75°C	
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical					
Installation	Wall Mount	DIN Rail	DIN Rail	Wall Mount	
Dimension (L)*(W)*(H) mm	82 6*86*25	44 5*31 8*13 94	28*64 7*1097	112 2*94*28	

Physical				
Installation	Wall Mount DIN Rail DIN Rail		Wall Mount	
Dimension (L)*(W)*(H) mm	82.6*86*25	44.5*31.8*13.94	28*64.7*109.7	112.2*94*28
Software				
Network protocol	TCP/L	JDP/IPV4/IPV6/DNS/HTTP/MQTT/SS	SL/TLS	TCP/UDP/IPV4/IPV6/DNS/HTTP
User configuration	AT command	AT command	AT command	AT command
Simple transparent transmission	TCP/UDP client	TCP/UDP client	TCP/UDP client	TCP/UDP client, TCP/UDP Server
Working mode	CMD/NET/HTTPD/SMS/MQTT	CMD/NET/HTTPD/SMS/MQTT	CMD/NET/HTTPD/SMS/MQTT	NET/HTTPD/SMS
HTTPS	Support Support Support		Support	Support
SSL/TSL encryption	Support Support		Support	-
MQTT	Support	Support	Support	-
Message	Support	Support	Support	Support
Registration/Heartbeat package	Support	Support	Support	Support
Serial port packaging mechanism	Time and length can be set, the maximum packing length is 4096 bytes			
Network buffer			-	
Serial buffer	When the packet length is 10 bytes, 200 packets, or 2 KB, can be cached; When the packet length is 1460 bytes, 5 packets, or 7.3 KB, can be cached			
Remote configuration	Support			

Industrial Wireless

	Celluar Modem	
Model	CGT571-E	CGT571-EAU
	7 may 1	Tops





Serial Port				
Num. of ports	RS232	*1+RS485*1		
Connection method		industrial terminal block for RS485		
Baud rate		s-460800bps		
Network Port				
Port type		RJ45		
WAN	10/100Base-T(X) WAN/LAN port*1		
LAN	10/100Base	-T(X) LAN port*1		
4G Cellular				
Quantity of antenna		1		
Antenna interface	S	SMA-K		
SIM card	(3V&1.8 V) st	andard 2FF SIM*1		
Working frequency	LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GSM/EDGE: B3/8	LTE-FDD: B1/2/3/4/5/7/8/28 LTE-TDD: B40 WCDMA: B1/2/3/5/8 GSM/EDGE: B2/3/5/8		
Power Supply				
Power input	DC	C9~36V		
Working current	Averag	e 180mA/12		
Connection method	2-pin 5.08mm inc	dustrial terminal block		
Power protection	No polarity			
Working Environment				
Operating temperature	-35°(C~ +75°C		
Relative huminity	5%~95% (n	on-condensing)		
Physical				
Installation	Wa	ll Mount		
Dimension (L)*(W)*(H) mm	123	3*112*28		
Software				
Network protocol	TCP/UDPI	DNS/https/FTP		
User configuration	WEB, A	T command		
Simple transparent transmission	TCP/UDP clier	nt, TCP/UDP server		
Working mode	NET	T, HTTPD		
HTTPS	Si	upport		
SSL/TSL encryption		-		
MQTT		-		
Message	Si	upport		
Registration/Heartbeat package	Si	upport		
Serial port packaging mechanism	Si	upport		
Network buffer		-		
Serial buffer		10KB		



Wireless Ethernet Bridge Model CIAP3502U-GT CIAP3505U-GT





Ethernet		
Ethernet Port	1*RJ45, 10/100M(PoE in)	1*RJ45, 10/100M(PoE in)
WAN protocols	Static IP, DHCP client, PPPoE client	Static IP, DHCP client, PPPoE client
Management	HTTP(S) GUI, SSH, SNMP read, Telnet	HTTP(S) GUI, SSH, SNMP read, Telnet
WiFi Specification		
Protocol	802.11a/n	802.11a/n
Frequency	4.9Ghz ~ 6Ghz	4.9Ghz ~ 6Ghz
Channel bandwidth	5/10/20/40Mhz	5/10/20/40Mhz
MIMO	2*2	2*2
Max rate	300Mbps	300Mbps
Antenna	Built-in, 8dBi	Built-in, 15dBi
Working Environment		
Operating temperature	-40° C ~ +70° C	-40° C ~ +70° C
Ambient humicrty	0 ~ 90 % (non-condensing)	0 ~ 90 % (non-condensing)
Coverage Distance		
Point to point	≤ 2KM	≤ 5KM
Point to multiple points(same model)	≤ 1KM	≤ 3KM
Physical Parameter		
Installation	Pole Mount, Wall Mount	Pole Mount
Dimension (L)*(W)*(H) mm	141*77.5*53	158*97*38
IP Protection	IP64	IP66
Power Supply		
Power input	12 - 24 VDC passive PoE	12 - 24 VDC passive PoE
Consumption	4.5W	4.5W

Industrial Wireless

	Wireless Client	
Model	CIAP314-1A2-2D	CIAP325-2A25-2D
		To the second se

	C	Company or an analysis
Interface		
Serial Port	RS232*1/RS485*1	RS485*1, RS232*1
Ethernet Port	10/100 Mbps RJ45*2	10/100 Mbps RJ45*2
WAN/LAN Port	WAN/LAN*1+LAN*1	WAN/LAN*1+LAN*1
WiFi Specification		
Antenna Standard	IEEE802.11 b/g/n, 2.4GHz	IEEE 802.11b/g/n/ac, 2.4GHz & 5.8GHz
Quantity of antenna	1	2
Working Mode	AP/STA/AP+STA/Bridge	AP/STA/AP+STA/Bridge
Transmission Distance	400m	400m
Working Environment		
Operating temperature	-25°C∼ +70°C	-25°C∼ +75°C
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)
Power Supply		
Power input	DC 9-36V	DC9~36V
Consumption		
Physical Parameter		
Installation	Wall Mount	Wall Mount
Dimension (L)*(W)*(H) mm	89*103.7*26	110.5*105*26
Power Supply		
Work mode	TCP, UDP, HTTP, TLS, MQTT, ARP, DHCP, ICMP, PPPoE, IPv4, DNS, SNMP, NTP	TCP, UDP, HTTP, TLS, MQTT, ARP, DHCP, ICMP, PPPoE, IPv4, DNS, SNMP, NTP
Modbus Gateway	Modbus RTU/TCP protocol conversion, Modbus multi-host polling	Modbus RTU/TCP protocol conversion, Modbus multi-host polling
IP	DHCP/StaticIP	DHCP/StaticIP
Registration packet	√	√
Heartbeat packet	√	✓
WiFi Encryption	WPA/WPA2/WPA3-PSK/SAE	WPA2/WPA3
Encryption Methods	WEP64/WEP128/TKIP/AES	TKIP/CCMP
User Configuring	Web console(HTTP), AT command	Web console(HTTP), AT command
MQTT	Standard MQTT protocol, 16 subscription topics and 16 publish topics	Standard MQTT protocol, 16 subscription topics and 16 publish topics



Wireless Client					
Model	CIAP326-2A25-2D	CIAP314R-1A2-485	CIAP314R-1A2-232		
	CONTEST (What				
Interface					
Serial Port	RS485*1, RS232*1	RS485*1	RS232*1		
Ethernet Port	10/100 Mbps RJ45*2	10/100 Mbps RJ45*1	10/100 Mbps RJ45*1		
WAN/LAN Port	WAN/LAN*1+LAN*1	WAN/LAN*1			
WiFi Specification					
Antenna Standard	IEEE 802.11b/g/n/ac/ax, 2.4GHz & 5.8GHz	IEEE 802.11 b/g/n, 2.4GHz	IEEE 802.11 b/g/n, 2.4GHz		
Quantity of antenna	2	1	1		
Working Mode	AP/STA/AP+STA/Bridge	STA/AP/AP+STA/Router	STA/AP/AP+STA		
Transmission Distance	200m	150m	150m		
Working Environment					
Operating temperature	-25°C∼ +70°C	-40°C∼ 85°C	-40°C∼ 85°C		
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)		
Power Supply					
Power input	DC9~36V	DC 9-36V	DC9~36V		
Consumption	<5.5W@DC24V				
Physical Parameter					
Installation	Wall Mount, DIN Rail	DIN Rail	DIN Rail		
Dimension (L)*(W)*(H) mm	115*94*29	109.66*28*64.71	109.66*28*64.71		
Power Supply					
Work mode	TCP, UDP, HTTP, TLS, MQTT, ARP, DHCP, ICMP, PPPoE, IPv4, DNS, SNMP, NTP				
Modbus Gateway	Modbus RTU/TCP protocol conversion, Modbus multi-host polling	Modbus RTU/TCP protocol conversion, Modbus multi-host polling	Modbus RTU/TCP protocol conversion Modbus multi-host polling		
IP	DHCP/StaticIP		DHCP/StaticIP		
Registration packet	√	√	√		
Heartbeat packet	√	√	√		
WiFi Encryption	WPA-PSK/WPA2-PSK	WPA-PSK/WPA2-PSK	WPA-PSK/WPA2-PSK		
Encryption Methods	TKIP/CCMP	TKIP/AES	TKIP/AES		
User Configuring	Web console(HTTP)	Web server + AT command			
MQTT	Standard MQTT protocol, 16 subscription	-	-		

Industrial Wireless

Wireless Client				
Model	CIAP315R-1A25-485	CIAP315R-1A25-232		
Interface				
Serial Port	RS485*1	RS232*1		
Ethernet Port WAN/LAN Port	-	-		
WiFi Specification				
Antenna Standard	IEEE 802.11a/b/g/n, 2.4GHz & 5.8GHz	IEEE 802.11a/b/g/n, 2.4GHz & 5.8GHz		
Quantity of antenna	1	1		
Working Mode	AP/STA/AP+STA	AP/STA/AP+STA		
Transmission Distance	200m	200m		
Working Environment				
Operating temperature	-40°C∼ +85°C	-40°C∼ +85°C		
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)		
Power Supply				
Power input	DC9~36V	DC 9-36V		
Consumption	<5.5W@DC24V			
Physical Parameter				
Installation	DIN Rail	DIN Rail		
Dimension (L)*(W)*(H) mm	92*24*22	92*24*22		
Power Supply				
Work mode	TCP Client, TCP server, UDP client, UDP server, HTTP client, MQTTclient, IGMP	TCP Client, TCP server, UDP client, UDP server, HTTP clier MQTTclient, IGMP		
Modbus Gateway	Modbus RTU/TCP protocol conversion	Modbus RTU/TCP protocol conversion		
IP	DHCP/StaticIP	DHCP/StaticIP		
Registration packet	√	√		
Heartbeat packet	√	\checkmark		
WiFi Encryption	WEP/WPA-PSK/WPA2-PSK	WEP/WPA-PSK/WPA2-PSK		
Encryption Methods	WEP64/WEP128/TKIP/AES	WEP64/WEP128/TKIP/AES		
User Configuring	Web console(HTTP), AT command	Web console(HTTP), AT command		
MQTT	-	-		

INDUSTRIA **DEVICE NETWORKING**

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Cport3101R-485 · · · · · · 088
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Cport3101-I
Cport3101-W
Cport3102R 089
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Cport3102-I
Cport3104 · · · · · · · · · · · · · · · · · · ·
Cport3104-I
Cport3108-232 · · · · · · · · · · · · · · · · · ·
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Cport3208-RJ-AD220 092
Cport3208-AD220
Cport3208-I-AD220 · · · · · · · · · · · · · · · · · ·
Cport3216-AD220
Cport3216-I-AD220 · · · · · · · · 093
Cport3232-2AD220

CANbus to Ethernet Gateway

CS-CANET100 · · · · · · · · · · · · · · · · · ·	094
CS-CANET200 · · · · · · · · · · · · · · · · · ·	094
CS-CANET300 · · · · · · · · · · · · · · · · · ·	094
CS-CANFiber500 · · · · · · · · · · · · · · · · · ·	095
CS-CANFiber600 · · · · · · · · · · · · · · · · · ·	095





Industrial Gateway

Cgate3202 · · · · · · · · · · · · · · · · · ·
Cgate3204-4D232 · · · · · · · · · · · · · · · · · ·
Cgate3204-4D485 · · · · · · · · · · · · · · · · · · ·
Cgate3208-8D232 · · · · · · · · · · · · · · · · · ·
Cgate3208-8D485 · · · · · · · · · · · · · · · · · · ·
Cgate300 · · · · · · · · · · · · · · · · · ·
Cgate300-G · · · · · · · · · · · · · · · · · · ·
Cgate100 · · · · · · · · · · · · · · · · · ·
Cgate100-ET
Cgate100-EAU · · · · · · · · · · · · · · · · · · ·
Cgate100-HM······0
CaxGate600-G · · · · · · 10
Cgate310-G
Remote I/O
Remote I/O
CJ-2DI2DO-RS-E
CJ-2DI2DO-RS-E
CJ-2DI2DO-RS-E
CJ-2DI2DO-RS-E
CJ-2DI2DO-RS-E 10 CJ-2DI2DO-RS-EAU 11 CJ-8DI8DO-MP 10 CJ-8DI8DO-MN 11 CJ-16DI16DO-MP 11
CJ-2DI2DO-RS-E
CJ-2DI2DO-RS-E CJ-2DI2DO-RS-EAU CJ-8DI8DO-MP CJ-8DI8DO-MN CJ-16DI16DO-MP CJ-8DI8DO-RS CJ-4DI4DO2AI 10 11 11 12 13 14 15 16 16 17 17 18 18 18 18 18 18 18 18
CJ-2DI2DO-RS-E 10 CJ-2DI2DO-RS-EAU 11 CJ-8DI8DO-MP 10 CJ-8DI8DO-MN 10 CJ-16DI16DO-MP 10 CJ-8DI8DO-RS 10 CJ-4DI4DO2AI 10 CJ-8DI8DO 11 CJ-8DI8DO 11
CJ-2DI2DO-RS-E 10 CJ-2DI2DO-RS-EAU 10 CJ-8DI8DO-MP 10 CJ-8DI8DO-MN 10 CJ-16DI16DO-MP 10 CJ-8DI8DO-RS 10 CJ-4DI4DO2AI 10 CJ-8DI8DO 10 CX-DI08 10
CJ-2DI2DO-RS-E 10 CJ-2DI2DO-RS-EAU 11 CJ-8DI8DO-MP 10 CJ-8DI8DO-MN 10 CJ-16DI16DO-MP 10 CJ-8DI8DO-RS 10 CJ-4DI4DO2AI 10 CJ-8DI8DO 11 CJ-8DI8DO 11

Serial to Fiber Converter

CSF516-4F 1	
CSF516-8F · · · · · 1	
CSF516-10F · · · · · · 1	
CSF516-16F · · · · · · 1	
CSF208-F	
CSF204-F	
CSF201 · · · · · 1	
CSF201-KG · · · · · 1	
CSF501 · · · · · 1	
CSF501-KG · · · · · 1	
CSF-CAN-F	0
Interface Converter	
CSE485-TD	1
CSE485-TDM · · · · · 1	
CSE232-H4 · · · · · 1	
CSE485-H4 · · · · · 1	
CSE485-HUB4 · · · · · 1	
CSE485-HUB8 · · · · · 1	
CSE810 · · · · · 1	
CSE820A · · · · · 1	
CSE820B · · · · · 1	
CSE814 · · · · · 1	1
Interface Protector	
CSE485-Y · · · · · · · · · · · · · · · · · · ·	1
CSE485-YGS········	
CSE485-YG · · · · · · · · · · · · · · · · · · ·	

DDP/DC

Industrial Device Networking

	Serial Do	evice Server	
Model	Cport3101R-232	Cport3101R-485	Cport3101
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			ne record
		The state of the s	== 4200 == 420
Serial Port			
Num. of serial ports	RS232*1	RS485*1	RS232/485/422*1
Connection method	Terminal block	Terminal block	DB9 for RS232, terminal block for RS485/4
Isolation	-	-	-
Baud rate	600bps~460800bps	600bps~460800bps	600bps~230400bps
Ethernet Port		·	
	1	1	1
10/100Base-T(X) 10/100/1000Base-T(X)	1	1	1
10/100/1000Base-1(X) 100Base-F(X)			
1000M SFP			
	-	-	-
1000M combo port	-	-	-
Power Supply			
Power input	DC5~36V	DC5~36V	DC5~36V
Power consumption	AVG:1.5W; MAX:2.4W	AVG:1.2W; MAX:2.2W	AVG:1.2W; MAX:2.2W
Working Environment			
Operating temperature	-40°C∼ +85°C	-25°C∼ +75°C	-25°C∼ +75°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical			
Installation	DIN Rail	DIN Rail	Wall Mount
Dimension (L)*(W)*(H) mm	71*60*25	71*60*25	98*86*25
WiFi	71 00 20	71 66 25	70 00 20
		,	
Quantity of antenna	-	-	-
Wireless standard	-	-	-
Frequency scope	-	-	-
Bandwidth	-	-	-
Software			
Network protocol	TCP/IP, UDP, ARP, ICMP, IPV4	TCP/IP, UDP, ARP, ICMP, IPV4	IP, TCP/UDP, DHCP, RCMP, HTTP, IPv4, DI
IP obtaining method	Static IP/DHCP	Static IP/DHCP	Static IP/DHCP
DNS	Support	Support	Support
User configuration	WEB	WEB	WEB
Simple transparent transmission	UDP/Server/UDP Client/TCP Client/TCP Server/RealCOM	UDP/Server/UDP Client/TCP Client/TCP Server/RealCOM	TCP Server/TCP Client/UDP Server/UDF Client/Httpd Client
Modbus	Modbus RTU /ASCII to Modbus TCP	Modbus RTU /ASCII to Modbus TCP	Modbus RTU to Modbus TCP, Multi-hos Modbus Polling
Serial port packaging mechanism	Time and length can be set, the maximum packing length is 1024 bytes	Time and length can be set, the maximum packing length is 1024 bytes	Time and length can be set, the maximum packing length is 400 bytes
TCP server connection	A single serial port can connect up to 8 TCP Client	A single serial port can connect up to 8 TCP Client	A single serial port can connect up to 16 TCP Client
Network buffer	Send: 6Kbyte; Receive: 4Kbyte	Send: 6Kbyte; Receive: 4Kbyte	Send: 6Kbyte; Receive: 4Kbyte
Serial buffer	Receive: 2Kbyte	Receive: 2Kbyte	Receive: 1Kbyte
Heartbeat package	Support	Support	Support
Registration package	Support	Support	Support
RFC2217	Support	Support	Support
HTTPD client	Support	Support	-
WebSocket client	-	-	-
MQTT	-	-	Support
Data encryption	-	-	-
SSL encryption	-	-	-
Serial data forwarding			

Industrial Device Networking

Serial Device Server				
Model	Cport3101-I	Cport3101-W	Cport3102R	
			Gentation	

Serial Port			
Num. of serial ports	RS232/485/422*1	RS232/485*1	RS232/485/422*2
Connection method	DB9 for RS232, terminal block for RS485/422	DB9 for RS232, terminal block for RS485/422	DB9 for RS232, terminal block for RS485/
Isolation	2kVDC	-	-
Baud rate	600bps~460800bps	RS232: 300 ~ 460.8Kbps; RS485: 300 ~ 230.4Kbps	600bps~230400bps
Ethernet Port		300 · 230.4Nbps	
10/100Base-T(X)	1	1	1
10/100/1000Base-T(X)	<u>-</u>	- -	- -
100Base-F(X)	-	-	_
1000M SFP	-	-	-
1000M combo port	-	-	-
Power Supply			
Power input	DC9~36V	DC5~36V	DC5~36V
Power consumption	<1W@DC12V	AVG:2.1W; MAX:3.2W	AVG:0.8W; MAX:1.4W
Working Environment			
Operating temperature	-40°C∼ +85°C	-40°C∼ +85°C	-40°C∼ +85°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical			
Installation	Wall Mount	Wall Mount	Wall Mount
Dimension (L)*(W)*(H) mm	96*90*26	86*82.5*25	150*79*30
WiFi	70 70 20	00 02.0 20	150 // 50
Quantity of antenna	-	1	-
Wireless standard	-	802.11 b/g/n	-
Frequency scope	-	2.412GHz-2.484GHz	-
Bandwidth	-	20MHz/40MHz	-
Software			
Network protocol	IP, TCP/UDP, ARP, ICMP, DHCP Client, DNS, HTTP, RFC2217	IP, TCP, UDP, DHCP, DNS, HTTPS, ARP, ICMP	IP, TCP, UDP, DHCP, DNS, https, ARP, IC
IP obtaining method	Static IP/DHCP	Static IP/DHCP	Static IP/DHCP
DNS	Support	Support	Support
User configuration	WEB	WEB	WEB
Simple transparent transmission	UDP/UDP Multicast/TCP Client/TCP Server/ RealCOM/Pair Connection	TCP Server/TCP Client/UDP Server/UDP Client/Httpd Client	TCP Server/TCP Client/UDP Server/Ul Client
Modbus	Modbus RTU /ASCII to Modbus TCP	Modbus RTU to Modbus TCP	Modbus RTU to Modbus TCP
Serial port packaging mechanism	Time and length can be set, the maximum packing length is 1460 bytes	Time and length can be set, the maximum packing length is 1460 bytes	Time and length can be set, the maximum packing length is 1460 byte
TCP server connection	A single serial port can connect up to 8 TCP Client	A single serial port can connect up to 16 TCP Client	A single serial port can connect up to 16 Client
Network buffer	Send: 16Kbyte; Receive: 16Kbyte	Send: 16Kbyte; Receive: 16Kbyte	Send: 16Kbyte; Receive: 16Kbyte
Serial buffer	Send: 1.5Kbyte; Receive: 1.5Kbyte	Send: 4Kbyte; Receive: 4Kbyte	Send: 2Kbyte; Receive: 2Kbyte
Heartbeat package	Support TCP Keep alive mechanism, customize heartbeat package content	Support	Support
Registration package	Customize the content heartbeat package content	Support	Support
RFC2217	Support	Support	Support
HTTPD client	Support	Support	Support
WebSocket client	Support	Support	Support
MQTT	-	Support	Support
Data encryption	-	Support	Support
SSL encryption	-	Support	Support
Serial data forwarding	-	-	-
DDP/DC	-	-	-

Serial Device Server Model Cport3102 Cport3102-I Cport3104







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Serial Port			
	RS232*1+RS485*1	RS485/422*2	RS232/485/422*4
Num. of serial ports	DB9 for RS232, terminal block for RS485/422		DB9 for RS232, terminal block for RS485/422
Connection method Isolation	DB7 for R3232, terrillial block for R3463/422	5.08mm pitch 5-pin terminal block 3kVDC	DB7 for RS2S2, terminal block for RS46S/422
Baud rate	600bps~230400bps	600bps~460800bps	600bps~230400bps
	600bps-230400bps	000bps-400000bps	000bps*230400bps
Ethernet Port			
10/100Base-T(X)	1	1	1
10/100/1000Base-T(X)	-	-	-
100Base-F(X)	-	-	-
1000M SFP	-	-	-
1000M combo port	-	-	-
Power Supply			
Power input	DC5~36V	DC9~36V	DC5~36V
Power consumption	AVG:0.8W; MAX:1.2W	<1W@DC12V	AVG:0.8W; MAX:1.6W
Working Environment			
Operating temperature	-40°C∼ +85°C	-40°C∼ +85°C	-40°C∼ +85°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical	3.	3.	1
<u>'</u>			
Installation	Wall Mount	Wall Mount	Wall Mount
Dimension (L)*(W)*(H) mm	82.5*86*25	162*95*29	222*122*29
WiFi			
Quantity of antenna	-	-	-
Wireless standard	-	-	-
Frequency scope	-	-	-
Bandwidth	-	-	-
Software			
Network protocol	IP, TCP, UDP, HTTP, MQTT, SSL/TLS, ARP, ICMP, DHCP, DNS	IP, TCP/UDP, ARP, ICMP, DHCP Client, DNS, HTTP, RFC2217	IP, TCP, UDP, DHCP, DNS, HTTPS, ARP, ICMP
IP obtaining method	Static IP/DHCP	Static IP/DHCP	Static IP/DHCP
DNS	Support	Support	Support
User configuration	WEB	WEB	WEB
Simple transparent transmission	TCP Server/TCP Client/ UDP Server/UDP Client	UDP/UDP Multicast/TCP Client/ TCP Server/RealCOM/Pair Connection	TCP Server/TCP Client/UDP/ HTTP client/Websocket server
Modbus	Modbus RTU to Modbus TCP	Modbus RTU /ASCII to Modbus TCP	Modbus RTU to Modbus TCP
Serial port packaging mechanism	Time and length can be set, the maximum packing length is 1460 bytes	Time and length can be set, the maximum packing length is 1460 bytes	Time and length can be set, the maximum packing length is 1460 bytes
TCP server connection	A single serial port can connect up to 16 TCP Client	A single serial port can connect up to 8 TCP Client	A single serial port can connect up to 16 TCP Client
Network buffer	Send: 16Kbyte; Receive: 16Kbyte	Send: 16Kbyte; Receive: 16Kbyte	Send: 16Kbyte; Receive: 16Kbyte
Serial buffer	Send: 2Kbyte; Receive: 2Kbyte	Send: 1.5Kbyte; Receive: 1.5Kbyte	2Kbyte
Heartbeat package	Support TCP Keep alive mechanism, customize heartbeat package content	Support TCP Keep alive mechanism, customize heartbeat package content	Support
Registration package	Customize the content heartbeat package content	Customize the content heartbeat package content	Support
RFC2217	Support	Support	Support
HTTPD client	Support	Support	Support
WebSocket client	Support	Support	Support
MQTT	Support	-	Support
Data encryption	Support	-	Support
SSL encryption	Support	-	Support
Serial data forwarding	-	-	-
DDP/DC		-10ma	- 10
Transmission delay	<10ms	<10ms	<10ms

Industrial Device Networking

Serial Device Server				
Model	Cport3108-485			
	4	-		







100 100 100 100 100 100 100 100 100 100		
RS485/422*4	RS232*8	RS485*8
5.08mm pitch 5-pin terminal block	5.08mm pitch 5-pin terminal block	Terminal block
3kVDC	-	-
600bps~460800bps	600bps~460800bps	600bps~9216000bps
	·	
1	1	2
ı	ı	Z
_	_	_
_	_	-
		DC9~36V
<1.3W@DC12V	<1.1W@DC12V	AVG:0.8W; MAX:1.6W
-40°C∼ +85°C	-40°C∼ +85°C	-40°C∼ +85°C
5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Wall Mount	Wall Mount	Wall Mount
		222*132*35
207 112 04.2	207 112 04.2	222 102 00
-	-	-
-	-	-
-	-	-
-	-	-
IP, TCP/UDP, ARP, ICMP, DHCP Client, DNS, HTTP, RFC2217	IP, TCP/UDP, ARP, ICMP, DHCP Client, DNS, HTTP, RFC2217	IP, TCP, UDP, HTTP, MODBUS, ARP, ICM IPV4, DHCP, DNS, SNMP, Telnet, MQTT, S TLS
Static IP/DHCP	Static IP/DHCP	Static IP/DHCP
Support	Support	Support
WEB	WEB	WEB, AT command
UDP/UDP Multicast/TCP Client/ TCP Server/RealCOM/Pair Connection	UDP/UDP Multicast/TCP Client/ TCP Server/RealCOM/Pair Connection	TCP Server/TCP Client/UDP/ HTTP client/Websocket server
		Modbus RTU to Modbus TCP
Time and length can be set, the maximum packing length is 1460 bytes	Time and length can be set, the maximum packing length is 1460 bytes	
		maximum packing length is 1460 byte
maximum packing length is 1460 bytes A single serial port can connect up to	maximum packing length is 1460 bytes A single serial port can connect up to	maximum packing length is 1460 byte A single serial port can connect up to
maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte	maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte	maximum packing length is 1460 byte A single serial port can connect up to 8 TCP Client
maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content	maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content	maximum packing length is 1460 byte A single serial port can connect up to 8 TCP Client 48Kbyte
maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content	maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content	maximum packing length is 1460 byte A single serial port can connect up to 8 TCP Client 48Kbyte 2Kbyte Support Support
maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support	maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support	maximum packing length is 1460 byte A single serial port can connect up to 8 TCP Client 48Kbyte 2Kbyte Support Support
maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support Support	maximum packing length is 1460 bytes A single serial port can connect up to B TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support Support	maximum packing length is 1460 byte A single serial port can connect up to 8 TCP Client 48Kbyte 2Kbyte Support Support Support Support
maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support	maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support	maximum packing length is 1460 byte A single serial port can connect up to 8 TCP Client 48Kbyte 2Kbyte Support Support Support Support Support Support
maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support Support	maximum packing length is 1460 bytes A single serial port can connect up to B TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support Support	maximum packing length is 1460 byte A single serial port can connect up to 8 TCP Client 48Kbyte 2Kbyte Support Support Support Support Support Support Support Support Support
maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support Support	maximum packing length is 1460 bytes A single serial port can connect up to B TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support Support	maximum packing length is 1460 byte A single serial port can connect up to 8 TCP Client 48Kbyte 2Kbyte Support
maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support Support	maximum packing length is 1460 bytes A single serial port can connect up to B TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support Support	maximum packing length is 1460 byte A single serial port can connect up to 8 TCP Client 48Kbyte 2Kbyte Support Support Support Support Support Support Support Support Support
maximum packing length is 1460 bytes A single serial port can connect up to 8 TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support Support	maximum packing length is 1460 bytes A single serial port can connect up to B TCP Client Send: 16Kbyte; Receive: 16Kbyte Send: 1.5Kbyte; Receive: 1.5Kbyte Support TCP Keep alive mechanism, customize heartbeat package content Customize the content heartbeat package content Support Support	maximum packing length is 1460 byte A single serial port can connect up to 8 TCP Client 48Kbyte 2Kbyte Support
	5.08mm pitch 5-pin terminal block 3kVDC 600bps-460800bps 1 DC9-36V <1.3W@DC12V -40°C ~ +85°C 5%-95% (non-condensing) Wall Mount 207*112*34.2 Static IP/DHCP Support WEB UDP/UDP Multicast/TCP Client/ TCP Server/RealCOM/Pair Connection	5.08mm pitch 5-pin terminal block 3kVDC



Serial Device Server Cport3208-RJ-AD220 Cport3208-AD220 Cport3208-I-AD220 Model



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Serial Port			
Num. of serial ports	RS232/485/422*8	RS232/485*8	RS485/422*8
Connection method	RJ45	5.08mm pitch 5-pin terminal block	5.08mm pitch 5-pin terminal bloc
solation	-	-	2kVAC/3kVAC
Baud rate	300-1152000bps	600bps~460800bps	600bps~460800bps
Ethernet Port			
10/100Base-T(X)	2	2	2
10/100/1000Base-T(X)	-	-	-
100Base-F(X)	-	-	-
1000M SFP	-	-	-
1000M combo port	-	-	-
Power Supply			
Power input	AD220V	AD220V	AD220V
Power consumption	AVG:0.8W; MAX:1.6W	<2.5W@AC220V	<4.5W@AC220V
Working Environment			
Operating temperature	-40°C∼ +85°C	-40°C∼ +85°C	-40°C∼ +85°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical	ora voice and condensing,	ora voice that condensing,	ora rora (non-condending)
<u> </u>	10.1		
Installation	19 inn 1U rack mount installation	19 inn 1U rack mount installation	19 inn 1U rack mount installation
Dimension (L)*(W)*(H) mm	482*185*45	482.6*44*210	482.6*44*210
WiFi			
Quantity of antenna	-	-	-
Wireless standard	-	-	-
Frequency scope	-	-	-
Bandwidth	-	-	-
Software			
Network protocol	IP, TCP/UDP, ARP, ICMP, IPV4, HTTP, SSL	IP, TCP/UDP, ARP, ICMP, DHCP Client, DNS, HTTP, RFC2217, NTP, TELNET, SNMP, TFTP	
IP obtaining method		Static IP/DHCP	P, TELINET, SINMP, TETP
DNS		Support	
User configuration	WEB, AT command	WE	=B
Simple transparent transmission	TCP Server/TCP Client/SSL Client/	UDP/UDP Multicast/TCP Client/TCF	
	UDP Server/UDP Client/ Httpd Client		
Modbus	Modbus RTU to Modbus TCP	Modbus RTU /ASC	
Serial port packaging mechanism		ngth can be set, the maximum packing length is A single serial port	
TCP server connection	A single serial port can connect up to 16 TCP Client	A single senai port 8 TCP	
Network buffer	10Kbyte	Send: 16Kbyte; R	Receive: 16Kbyte
Serial buffer	10Kbyte	Send: 1.5Kbyte; R	Receive: 1.5Kbyte
Heartbeat package	Support	Support TCP Keep alive mechanism, o	customize heartbeat package content
Registration package	Support	Customize the content he	eartbeat package content
RFC2217		Support	
HTTPD client		Support	
WebSocket client		Support	
MQTT		Support	
Data encryption	Support	Support (DES/3DES/AES/RC2	/RC4/RC5/BlowFish and etc.)
SSL encryption	Support	Support (TLS1.0	
Serial data forwarding	-	Supp	
DDP/DC	-	Supp	
Transmission delay	<10ms	<10ms	<10ms

Industrial Device Networking

Serial Device Server			
Model	Cport3216-AD220	Cport3216-I-AD220	Cport3232-2AD220





Serial Port			
	DC272/40E*1/	DC 405 /422*1/	DC272/40F/422*72
Num. of serial ports	RS232/485*16	RS485/422*16	RS232/485/422*32
Connection method	5.08mm pitch 5-pin terminal block	5.08mm pitch 5-pin terminal block	RJ45
Isolation	- 44,0000	2kVAC/3kVAC	-
Baud rate	300bps~460800bps	300bps~460800bps	600bps~460800bps
Ethernet Port			
10/100Base-T(X)	-	-	-
10/100/1000Base-T(X)	-	-	-
100Base-F(X)	-	-	-
1000M SFP	-	-	-
1000M combo port	2	2	2
Power Supply			
Power input		AD220V	
Power consumption		<6.5W@AC220V	
Working Environment			
Operating temperature		-40°C∼ +85°C	
Relative huminity		5%~95% (non-condensing)	
Physical		3.	
Installation Dimension (L)*(W)*(H) mm		19 inn 1U rack mount installation	
		482.6*44*210	
WiFi			
Quantity of antenna	-		
Wireless standard	-		
Frequency scope	-		
Bandwidth	-		
Software			
Network protocol	IP, TCP/UDP, ARP, ICMP, DHCP Client, DNS, HTTP, RFC2217, NTP, TELNET, SNMP, TFTP		
IP obtaining method	Static IP/DHCP		
DNS	Support		
User configuration		WEB	
Simple transparent transmission	UDP/UDP N	fulticast/TCP Client/TCP Server/RealCOM/Pair C	Connection
Modbus		Modbus RTU /ASCII to Modbus TCP	
Serial port packaging mechanism	Time and ler	ngth can be set, the maximum packing length is	1460 bytes
TCP server connection	A	single serial port can connect up to 8 TCP Clien	t
Network buffer		Send: 16Kbyte; Receive: 16Kbyte	
Serial buffer		Send: 2Kbyte; Receive: 2Kbyte	
Heartbeat package	Support TCP k	Geep alive mechanism, customize heartbeat pac	kage content
Registration package	Cı	ustomize the content heartbeat package content	t
RFC2217	Support		
HTTPD client	Support		
WebSocket client		Support	
MQTT		Support	
Data encryption	Suppo	rt (DES/3DES/AES/RC2/RC4/RC5/BlowFish and	etc.)
SSL encryption		Support (TLS1.0/TLS1.1/TLS1.2)	
Serial data forwarding		Support	
DDP/DC		Support	
Transmission delay		<10ms	



CANbus to Ethernet Gateway

Model CS-CANET100 CS-CANET200 CS-CANET300







CAN Port			
Num. of CAN ports	1	2	1
Connection method	5-pin 5.08mm industrial terminal block	5-pin 5.08mm industrial terminal block	5-pin 5.08mm industrial terminal block
Working mode	Normal, Loopback, Listen only	Normal, Loopback, Listen only	Normal, Loopback, Listen only
Isolation	2kVAC	2kVAC	2kVAC.
Baud rate	5kbps~1000kbps	5kbps~1000kbps	5kbps~1000kbps
Serial Port	a apa a a a apa	a special special	
Num. of serial ports	1*RS232/RS485	-	1*RS232/RS485
Connection method	5-pin 5.08mm industrial terminal block	-	5-pin 5.08mm industrial terminal block
Isolation	2kVAC	-	-
Baud rate	600bps~460800bps	-	600bps~460800bps
Network Port			
Num. of ETH ports	-	100/100Base-T(X) RJ45 port*1	100/100Base-T(X) RJ45 port*1
Isolation	-	1.5kV	1.5kV
Power Supply			
Power input	DC9~36V	DC9~36V	DC9~36V
Power consumption	<0.8W@DC12V	<0.8W@DC12V	<0.8W@DC12V
	10.6WCBC12V	-0.0WEBC12V	10.6WC 2C12V
Working Environment			
Operating temperature	-40°C∼ +85°C	-40°C∼ +85°C	-40°C∼ +85°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical			
Installation	Wall Mount	Wall Mount	Wall Mount
Dimension (L)*(W)*(H) mm	162*95*29	162*95*29	162*95*29
Software			
Network protocol		IP, TCP/UDP, ARP, ICMP, DHCP, DNS, HTTP	
IP obtaining method		Static IP/DHCP	
User configuration		WEB	
Simple transparent transmission	TCP Client/TCP Server/	/UDP /UDP Multicast/Pair Connection/WebSoc	
Modbus	CAN to Modbus RTU	CAN to Modbus TCP	CAN to Modbus TCP, CAN to serial Modb serial Modbus RTU/ASCII to Modbus TCF
Num. of network connections	-	A single bus port supports	up to 4 network connections
CAN additional function	CAN to RS232/485	CAN repeater	CAN to RS232/485
CAN ID filtering		Support	
CAN cache		Send: 200 complete data packets per channel Receive: 200 complete data packets per chann	
Serial cache	Send:1.5Kbyte; Receive:1.5Kbyte	- '	Send:1.5Kbyte; Receive:1.5Kbyte
Network cache	-	Send:16Kbyte; Receive:16Kbyte	Send:16Kbyte; Receive:16Kbyte
CAN RX/TX capability	-	Support (Client only)	Support (Client only)
Heartbeat package	-	Support (Client only)	Support (Client only)
Registration package	-	CAN: 0~50 frame	CAN: 0~50 frame; Serial: 0~1460bytes
Packet length	-	0~255ms	0~255ms
Packet interval	-	-	-
Transmission delay	<10ms	<11ms	<10ms

Industrial Device Networking

CANbus to Ethernet Gateway

Model CS-CANFiber500 CS-CANFiber600





		1 11 10
CAN Port		
Num. of CAN ports	2	2
CAN standard	CAN2.0A, CAN2.0B	CAN2.0A, CAN2.0B
Connection method	5-pin 5.08mm industrial terminal block	5-pin 5.08mm industrial terminal block
Working mode	Normal, Loopback, Listen only	Normal, Loopback, Listen only
Isolation	3kVAC	3kVAC
Baud rate	5kbps~1000kbps	5kbps~1000kbps
Management Port		
Num. of network ports	100/100Base-T(X) RJ45 port*1	100/100Base-T(X) RJ45 port*1
Function	Only for management, not for communication port	Only for management, not for communication port
Fiber Port		
Num. of fiber ports	100Base-F(X)*1	100Base-F(X)*2
Topology	Point-to-point	Link, single ring, point-to-point
Interface	SC/ST/FC optional SC/ST/FC optional	
Transmission distance	Multimode 2km; Singlemode 20/40/60/80/120km Multimode 2km; Singlemode 20/4	
Transmission wavelength	Multimode 1310nm; Singlemode 1310nm or 1550nm Multimode 1310nm; Singlemode 1	
Working mode	UDP, TCP Client, TCP Server, UDP multicast	UDP, TCP Client, TCP Server, UDP multicast
Power Supply		
Power input	DC9~60V, AD220V	DC9~60V, AD220V
Power consumption	<2.2W@DC24V	<2.2W@DC24V
Working Environment		
Operating temperature	-40°C∼ +85°C	-40°C∼ +85°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical		
Installation	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	118*35*88 118*35*88	
Switching		
Backplane bandwidth	1.2Gbps	1.2Gbps
Cache	768kbit	768kbit

Industrial Gateway				
Model	Cgate3202	Cgate3204-4D232	Cgate3204-4D485	
CAN Port				
Num. of CAN ports	RS232/485*2	RS232*4	RS485*4	
Connection method	6-pin 3.81mm industrial terminal block	6-pin 3.81mm industrial terminal block	6-pin 3.81mm industrial terminal block	
Working mode	2kVAC/3kVAC	2kVAC/3kVAC	2kVAC/3kVAC	
Isolation	300bps~460800bps	300bps~460800bps	300bps~460800bps	
Network Port				
Num. of ETH ports	100/100Base-T(X) RJ45 port*2	100/100Base-T(X) RJ45 port*2	100/100Base-T(X) RJ45 port*2	
Isolation	1.5kV	1.5kV	1.5kV	
Power Supply				
Power input	DC9~60V	DC9~60V	DC9~60V	
Power consumption	<1.8W@DC24V	<2W@DC24V	<1.8W@DC24V	
Working Environment		211033211	swebezii	
	-40°C∼ +85°C	-40°C∼ +85°C	-40°C∼ +85°C	
Operating temperature	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	
Relative huminity	5% 45% (non-condensing)	5%-75% (non-condensing)	5% 45% (non-condensing)	
Physical				
Installation	DIN Rail	DIN Rail	DIN Rail	
Dimension (L)*(W)*(H) mm	140*35*100	140*35*100	140*35*100	
Software				
Network protocol	IP, TCP, UDP, DNS, ARP, SNMP Trap, SSH, ICMP, HTTP, HTTPS, DHCP Client, RFC2217, NTP, SMTP, TELENT			
IP obtaining method	Static IP/DHCP			
User configuration		Support		
Simple transparent transmission	Web page config	uration/CONSOLE port simple network param	eter configuration	
Modbus	UDP/ UDP M	ulticast/ TCP Client/ TCP Server/ RealCOM/ Pa	air Connection	
Num. of network connections		Modbus RTU /ASCII to Modbus TCP		
CAN additional function	The time and le	ength can be set; the maximum packaging leng	gth is 1460 bytes	
CAN ID filtering		DES/3DES/AES/RC2/RC4/RC5/BlowFish		
CAN cache		TLS1.0/TLS1.1/TLS1.2		
Serial cache		e serial port supports up to 32 TCP Client con		
Network cache	A single serial port supports up to 16 TCP Server connections			
CAN RX/TX capability	Send: 16Kbyte; receive: 16Kbyte			
Heartbeat package	Send: 16Kbyte; receive: 16Kbyte			
Registration package	Support TCP Keep-alive mechanism and customize heartbeat packet content			
Packet length	Customized registration package content			
Packet interval	Hoove one colors date f	Support	art and other earial nests	
Transmission delay	Users can select data f	orwarding rules between the current serial po	irt and other serial ports	
Registration package		Support		
Packet length		Support		
Packet interval	Cupart ICON 6	Support Support Support	nd MOTT modes	
Transmission delay	Support JSON function in HTTPD Client, WebSocket Client, and MQTT modes			

Cgate3208-8D232	Cgate3208-8D485	
RS232*8	RS485*8	
6-pin 3.81mm industrial terminal block	6-pin 3.81mm industrial terminal block	
2kVAC/3kVAC	2kVAC/3kVAC	
300bps~460800bps 300bps~460800bps		
100/100Base-T(X) RJ45 port*2	100/100Base-T(X) RJ45 port*2	
1.5kV	1.5kV	
DC12~48V	DC12~48V	
<2.6W@DC24V	<2W@DC24V	
-40°C∼ +85°C	-40°C∼ +85°C	
5%~95% (non-condensing)	5%~95% (non-condensing)	
DIN Rail	DIN Rail	
140*35*100 140*35*100		
IP, TCP, UDP, DNS, ARP, SNMP Trap, SSH, ICMP, HTTP, H	TTPS, DHCP Client, RFC2217, NTP, SMTP, TELENT	
Static IP/DI	HCP	
Support	t en	
Web page configuration/CONSOLE port sim	ple network parameter configuration	
	RS232*8 6-pin 3.81mm industrial terminal block 2kVAC/3kVAC 300bps-460800bps 100/100Base-T(X) RJ45 port*2 1.5kV DC12-48V <2.6W@DC24V -40°C~+85°C 5%-95% (non-condensing) DIN Rail 140*35*100 IP, TCP, UDP, DNS, ARP, SNMP Trap, SSH, ICMP, HTTP, H' Static IP/Dt Support	

Software		
Network protocol	IP, TCP, UDP, DNS, ARP, SNMP Trap, SSH, ICMP, HTTP, HTTPS, DHCP Client, RFC2217, NTP, SMTP, TELENT	
IP obtaining method	Static IP/DHCP	
User configuration	Support	
Simple transparent transmission	Web page configuration/CONSOLE port simple network parameter configuration	
Modbus	UDP/ UDP Multicast/ TCP Client/ TCP Server/ RealCOM/ Pair Connection	
Num. of network connections	Modbus RTU /ASCII to Modbus TCP	
CAN additional function	The time and length can be set; the maximum packaging length is 1460 bytes	
CAN ID filtering	DES/3DES/AES/RC2/RC4/RC5/BlowFish	
CAN cache	TLS1.0/TLS1.1/TLS1.2	
Serial cache	A single serial port supports up to 32 TCP Client connections	
Network cache	A single serial port supports up to 16 TCP Server connections	
CAN RX/TX capability	Send: 16Kbyte; receive: 16Kbyte	
Heartbeat package	Send: 16Kbyte; receive: 16Kbyte	
Registration package	Support TCP Keep-alive mechanism and customize heartbeat packet content	
Packet length	Customized registration package content	
Packet interval	Support	
Transmission delay	Users can select data forwarding rules between the current serial port and other serial ports	
Registration package	Support	
Packet length	Support	
Packet interval	Support	
Transmission delay	Support JSON function in HTTPD Client, WebSocket Client, and MQTT modes	
Transmission delay	<10ms	

Industrial Gateway			
Model	Cgate300	Cgate300-G	
Serial Port			
Num. of serial ports	RS232/485	5*1+RS485*1	
Connection method	Termir	nla block	
Isolation		-	
Baud rate	600bps~	230400bps	
Network Port			
Num. of ETH ports	WAN/LAN*1 + LAN	N*1, 10/100Base-T(X)	
Isolation	Firewal	l Isolation	
IO Interface			
DI	DI*2. 0~2V detected as logic lo	ow, 9~36V detected as logic high	
DO	Rel: DC contacts rating @R(at AC contacts rating @R(at re:	ays*2, resistive load)10A / 28V DC sistive load)10A / 277V AC, NO	
Al	-	esistive load)5A /250V AC, N nput 4-20mA	
Cellular Network	Z dridlog ii	pac 4 2011/1	
Frequency	LTE-FDD: B1/3/5/8 LTE-TDD: B34/38/39/40/41; GSM: 900/1800MHz	LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66; LTE-TDD: B34/38/39/40/41; WCDMA: B1/2/4/5/6/8/19; GSM: 900/1800MHz GPS: GPS/GLONASS/BDS/Calileo/0zss	
SIM	Micro SIM*1		
Antenna	SN	1A-K	
Power Supply			
Power input	DC9-36V		
Power consumption	Idle: <2.4W; Max: <3.8W		
Working Environment			
Operating temperature	-40°C	~ ±75°C	
Relative huminity	-40°C ~ +75°C 10%-95% (non-condensing)		
·	1070 7070 (170	on contactioning,	
Physical	20	10.1	
Installation		N Rail	
Dimension (L)*(W)*(H) mm	79.6*	58*110	
Software			
Network protocol		DHCP, DNS, HTTP, MQTT, SNMP	
Protocol collection	Modbus RTU/TCP, various PLC protocols, DL/T645 protocol		
Protocol conversion User configuration	Modbus RTU/TCP, OPC UA, JSON, BAC net, 61850/104		
Edge gateway	WEB Active collection, edge computing, group reporting, 2000+ points, custom Json reporting template		
Modbus		protocol conversion	
Graphical programming		econdary development	
Data encryption	~ .	_/TLS	
SSL encryption		pport	
os	Linux		
VPN	PPTP, L2TP, *OpenVPN		
IP routing	Static routing		

Industrial Device Networking

Industrial Gateway				
Model	Cgate100	Cgate100-ET	Cgate100-EAU	Cgate100-HM
			© 1000 1000 1000 1000 1000 1000 1000 10	
Serial Port				
Num. of serial ports Connection method			35*1, RS485*1 inal block	
Isolation			-	
Baud rate		600bps	~230400bps	
Network Port				
Num. of ETH ports		WAN, 10/1	100Base-T(X)*1	
Isolation		Firewa	all Isolation	
IO Interface				
DI			low, 9~36V detected as logic high	
DO		DC contacts rating @R(a AC contacts rating @R(at re	elays*2, at resistive load)10A / 28V DC esistive load)10A / 277V AC, NO resistive load)5A /250V AC, N	
Al		*	input 4-20mA	
Cellular Network				
Frequency	LTE-FDD: B1/3/5/8 LTE-TDD: B34/38/39/40/41; GSM: 900/1800MHz	-	LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41; WCDMA: B1/5/8 GSM: 850/900/1800MHz	9/20/25/26/28/66; LTE-TDD: B34/38/39/40 WCDM: B1/2/4/5/6/8/ GSM: 900/1800MHz GPS: GPS/GLONASS/BE Calileo/0zss
SIM	1*(3 V/1.8 V) Micro-SIM(3FF)			
Antenna		S	MA-K	
Power Supply				
Power input	DC9~36V			
Power consumption		Idle: <2.4\	N; Max: <4.8W	
Working Environment				
Operating temperature			C~ +75°C	
Relative huminity		10%~95% (r	non-condensing)	
Physical				
Installation		D	IN Rail	
Dimension (L)*(W)*(H) mm		79.6	5*58*110	
Software				
Network protocol	ICMP, IPv	4, ARP, ICMP, TCP, UDP, DHCP, D	ONS, HTTPS, MQTT, SNMP, Telnet , N	ITP, SSLv3
Protocol collection			CP, DL/T645 protocol	
Protocol conversion	Modbus RTU/TCP, Json			
User configuration	Active collection	WEB Active collection, edge computing, group reporting, 300-1000 points, custom Json reporting template		
Edge gateway Modbus	Active collection		ng, 300-1000 points, custom Json re secondary development	sporting template
Graphical programming		Noucieu grapilicat	-	
Data encryption		SS	SL/TLS	
SSL encryption			upport	
OS		RT	-Thread	
VPN			-	
IP routing			-	



Industrial Gateway

Model CaxGate600-G Cgate310-G





System		
CPU	Rockchip RK3568 Quad-core ARM Cortex-A55 64bit CPU, up to 2.0GHz	Rockchip RK3562J ARM quad-core 64-bit processor, clocked up to 2.0GH
GPU	ARM G52 2EE GPU	ARM G52 2EE GPU
NPU	1.0TOPS@INT8 Support Caffe/Mxnet/TensorFlow/TFLite/ONNX/Darknet models	Built-in neural network processor NPU, 1.0TOPS@INT8 Performand Support Caffe/Mxnet/TensorFlow/TFLite/ONNX/Darknet models
OS	Linux Ubuntu 20.04	Linux Ubuntu 20.0
RAM	DDR4 4GB	DDR4 4GB
Memory	eMMC 32GB	eMMC 32GB
Interface		
Serial port	RS232*2, RS485*2	RS232*1, RS485*2, CAN*1
ETH port	10/100Base-T(X) ports*2	10/100Base-T(X) port*1 + 10/100/1000Base-T(X) port*1
USB	USB3.0 HOST*1, USB 3.0 OTG*1	USB2.0 HOST *2, USB3.0 OTG*1
Ю	DI*4: dry/wet contactDI voltage range 0-36V (Max. 36V), High 5-36V, Low 0-2V DO*2: RelayDO Max. 10A-277VAC/28VDC for NO, 5A-250VAC for NC AI*4: Analog quantityVoltage range 0-10v; Analog input Current range 4-20mA	Support extension machine Selectable: 8DO/4AI+4DO/4DI+4DO/8DI/4AI+4AO Maximum: 6
RTC	Built-in real-time clock battery, support scheduled power on/off	Built-in real-time clock battery, support scheduled power on/off
Audio	Ear output*1	Headset output*1
HDMI	HDMI OUT 2.0, 4K 60fps*1	HDMI OUT 2.0, 4K 60fps*1
WiFi	2.4GHz Wi-Fi 802. 11b/g/n	Dual-band WiFi IEEE 802.11a/b/g/n/ac/ax 2.4 GHz: 2.400-2.4835 GHZ 5 GHz: 5.150-5.850 GH
Cellular		
SIM	SIM slot Nano-SIM(4FF)*1	Nano SIM card slot for cellular networking Dual SIM Single Standby, Dual External Card
Frequency	LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66; LTE-TDD: B34/38/39/40/41; WCDMA: B1/2/4/5/6/8/19; GSM: 900/1800MHz GPS: GPS/GLONASS/BDS/Calileo/0zss	LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66; LTE-TDD: B34/38/39/40/41; WCDMA: B1/2/4/5/6/8/19; GSM: 900/1800MHz GPS: GPS/GLONASS/BDS/Calileo/0zss
GPS	GPS, GLONASS, BDS, Galileo and QZSS Protocol: NMEA 0183 Data update rate: 1 Hz by default Sensitivity:-162dBm Receive frequency: 1575.42MHz Acquisition Autonomous -146 dBm Tracking Autonomous -157 dBm Accuracy: Autonomous @ open sky 10m	Built-in GPS/BD module, Sensitivity:-162dBm Receiving frequency:1575.42MHz; Satellite channel: 20 channel Positioning accuracy: <10
Power Supply		
Power input	DC12V/2A (Max. 15V)	DC9~36V
	DC12V/2A (Max. 15V) AVG:8.2W; MAX:9W	DC9~36V AVG:6W; MAX:24W
Power input		
Power input Power consumption		
Power input Power consumption Working Environment	AVG:8.2W; MAX:9W	AVG:6W; MAX:24W
Power input Power consumption Working Environment Operating temperature	AVG:8.2W; MAX:9W -10°C∼ +70°C	AVG:6W; MAX:24W -20°C∼ +70°C
Power input Power consumption Working Environment Operating temperature Relative huminity	AVG:8.2W; MAX:9W -10°C∼ +70°C	AVG:6W; MAX:24W -20°C∼ +70°C

Industrial Device Networking

Remote I/O			
Model	CJ-2DI2DO-RS-E	CJ-2DI2DO-RS-EAU	

Network Parameter		
Network port type	RJ45	RJ45
WAN port	10/100Base-T(X) WAN/LAN port*1	10/100Base-T(X) WAN/LAN port*1
LAN port	10/100Base-T(X) LAN port*4	10/100Base-T(X) LAN port*4
Serial Port		
Port type	RS232/485*1	RS232/485*1
Connection method	Terminal block	Terminal block
Baud rate	1200bps-230400bps	1200bps-230400bps
Isolation voltage	-	-
WiFi		
Quantity of antenna	2	2
Working frequency	802.11b/g/n (2.4GHz)	802.11b/g/n (2.4GHz)
Antenna interface	SMA-K	SMA-K
Max. transmision rate	IEEE 802.11b/g, up to 54Mbps IEEE 802.11n, up to 150Mbps	IEEE 802.11b/g, up to 54Mbps IEEE 802.11n, up to 150Mbps
Cellular Network		
Network standard	LTE-FDD, LTE-TDD, WCDMA, GSM/EDGE	LTE-FDD, LTE-TDD, WCDMA, GSM/EDGE
Working frequency	LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B38/40/41; WCDMA: B1/5/8; GSM: 900/1800MHz	LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41; WCDMA: B1/5/8; GSM: 850/900/1800MHz
Quantity of antenna	2	2
Antenna interface	SMA-K SMA-K	
SIM card	1 x (3 V & 1.8 V) Standard 2FF SIM	1 x (3 V & 1.8 V) Standard 2FF SIM
Max. transmision rate	LTE-FDD (Mbps): downlink 150Mbps/uplink 50Mbps FDD-LTE: downlink 150Mbps/uplink 50Mbps	LTE-FDD (Mbps): downlink 150Mbps/uplink 50Mbps FDD-LTE: downlink 150Mbps/uplink 50Mbps
IO Interface		
DI/DO	DI: 2*Digital input, passive switch DO: 2*Digital open collector output, max output 36 V, 300 mA COM: common terminal, use in conjunction with DOs COM: common terminal, use in conjunction with DOs	
Power Supply		
Power input	DC9~36V	DC9~36V
Power consumption	AVG:6.2W; MAX:9.7W	AVG:6.2W; MAX:9.7W
Connection method	DC Power Jack Barrel Type Female 5.5*2.1mm Round socket	DC Power Jack Barrel Type Female 5.5*2.1mm Round sock
Power protection	Terminal block	Terminal block
Working Environment		
Operating temperature	-20°C∼ +70°C	-20°C∼ +70°C
Relative huminity	5%-95% (non-condensing) 5%-95% (non-condensing)	
Physical		
Installation	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	125*103*45	125*103*45

5% (non-condensing)

Wall Mount

200*122*29

Industrial Device Networking

102*33*78

		Remote I/O		
Model	CJ-8DI8DO-MP	CJ-8DI8DO-MN	CJ-16Dl16DO-MP	CJ-8DI8DO-RS
			international community	THE CONTRACT OF THE CONTRACT O
Interface				
Serial port	-	-	-	1*RS232/RS485
ETH port	10/100Base-T(X) RJ45 port*2	10/100Base-T(X) RJ45 port*2	10/100Base-T(X) RJ45 port*2	
DI	pitch terminal block Modbus function code: 02, 03, 04	Number of channels: 8 DI digital inputs Connection method: 10-bit 3.5mm pitch terminal blocks Modbus function code: 02, 03, 04 Rated voltage: DC24V (DC18-30V) Input type: wet contact NPN Input filtering: 0-20ms Isolation protection: 500VAC (optocoupler isolation)	Number of channels: 16 DI digital inputs Connection method: 2 10-bit 3.5mm pitch terminal blocks Modbus function code: 02, 03, 04 Rated voltage: DC24V (DC18-30V) Input type: wet contact PNP Input filtering: 0-20ms Isolation protection: 500VAC (optocoupler isolation)	16
DO	pitch terminal block Modbus function code: 01, 03, 05, 06, 15, 16 Output type: wet contact PNP Rated voltage: DC24V (DC18-30V) Rated current: 500mA (single channel)	outputs Connection method: 10-bit 3.5mm pitch terminal blocks Modbus function code: 01, 03, 05, 06, 15, 16 Rated voltage: DC24V (DC18-30V) Rated current: 500mA (single channel) Output type: wet contact NPN	Number of channels: 16 DO digital outputs Connection method: 2 10-bit 3.5mm pitch terminal blocks Modbus function code: 01, 03, 05, 06, 15, 16 Rated voltage: DC24V (DC18-30V) Rated current: 500mA (single channel) Output type: wet contact PNP Load type: resistive load, inductive load Isolation protection: 500VAC (optocoupler isolation) Interface protection: overvoltage, overcurrent, overload protection	outputs Connection method: 20-bit 5mi pitch terminal block Modbus function code: 01, 03, 0 05, 15 Output type: relay output (dry contact) Contact rated load: 10A@AC250 10A@DC30V
Power Supply				
Power input	DC9~36V	DC9~36V	DC9~36V	DC9~36V
Power consumption	<1.5W@DC24V	<1.5W@DC24V	<2W@DC24V	<3.5W@DC24V
Connection method	3-pin 5.08mm industrial terminal block	3-pin 5.08mm industrial terminal block	3-pin 5.08mm industrial terminal block	2-pin 5mm industrial terminal block
Power protection	Anti-reserve protection	Anti-reserve protection	Anti-reserve protection	Anti-reserve protection
Working Environment				
Operating temperature	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+75°C	-40°C ~+85°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)

102*33*78

Industrial Device Networking

Remote I/O				
Model	CJ-4DI4DO2AI	CJ-8DI8DO		
		CONTRACTOR OF THE PARTY OF THE		
Interfce				
Num. of DI	4	8		
Num. of Al	-	0		
Num. of DO	4	8		
Num. of AO				
Type of Al	2 -			
Single range of Al	4~20mA -			
Voltage range of DI	DC9-32V DC9-32V			
Type of DO	Relay			
Capability of DO	5A	5A		
Type of AO	-	-		
Single range of AO	-	-		
Communication port	RS485	RS485		
Extendable	-	-		
Power Supply				
Power input	DC12~36V	DC12~36V		
Power consumption	AVG:2.6W; MAX:4W	AVG:2.6W; MAX:4W		
Connection method	-	-		
Power protection				
Working Environment				
Operating temperature	-20°C ~ +70°C	-20°C ~ +70°C		

Wall Mount

123*114*28

102

145*90*40

Relative huminity

Dimension (L)*(W)*(H) mm

Physical Installation



Remote I/O				
Model	CX-DI08	CX-D008		
Interfce				
Num. of DI	8	0		
Num. of Al	0	0		
Num. of DO	0	8		
Num. of AO	0	0		
Type of Al	-	-		
Single range of Al	-	-		
Voltage range of DI	DC9~36V	-		
Type of DO	-	Relay		
Capability of DO	-	3A		
Type of AO	-	-		
Single range of AO	-	-		
Communication port	RS485	RS485		
Extendable	Support	-		
Power Supply				
Power input	DC12~24V	DC12~24V		
Power consumption	AVG:4.3W MAX:5.6W	AVG:4.3W MAX:5.6W		
Connection method	-	-		
Power protection	-	-		
Working Environment				
Operating temperature	-25°C ~ +75°C	-25°C ~ +75°C		
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)		
Physical				
Installation	DIN Rail	DIN Rail		
Dimension (L)*(W)*(H) mm	79.6*58*110	79.6*58*110		

Industrial Device Networking

	Rem	note I/O	
Model	CX-AI04AO04	CX-DI04DO04	CX-AI04DO04
Interfce			
Num. of DI	0	4	0
Num. of Al	4	0	4
Num. of DO	0	4	4
Num. of AO	4	0	0
Type of Al	Current	-	Current
Single range of Al	4~20mA	-	4~20mA
Voltage range of DI	-	DC9~36V	-
Type of DO	-	Relay	Relay
Capability of DO	-	3A	3A
Type of AO	Current/Voltage	-	-
Single range of AO	4~20mA, 0~10V	-	-
Communication port	RS485	RS485	RS485
Extendable	Support	Support	-
Power Supply			
Power input	DC12~24V	DC12~24V	DC12~24V
Power consumption	AVG:4.3W MAX:5.6W	AVG:4.3W MAX:5.6W	AVG:4.3W MAX:5.6W
Connection method	-	-	-
Power protection	-	-	-
Working Environment			
Operating temperature	-25°C ~ +75°C	-25°C ~ +75°C	-25°C ~ +75°C
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical			
Installation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	79.6*58*110	79.6*58*110	79.6*58*110

Serial to Fiber Converter Model CSF516-4F CSF516-8F CSF516-10F CSF516-16F



Serial Port				
Port type	RS232/485/422 are available	RS232/485/422 are available	RS232/485/422 are available	RS232/485/422 are available
Num. of serial port	1	1	1	1
Rate	300bps~115200bps	300bps~115200bps	300bps~115200bps	300bps~115200bps
Signal delay	-	-	-	-
Protection	-	-	-	-
Terminal resistance	-	-	-	-
Fiber Port				
Port type	Single mode/multimode	Single mode/multimode	Single mode/multimode	Single mode/multimode
Num. of fiber port	4	8	10	16
Wavelength		Single mode 1310/1550r	nm, Multimode 850/1310	
Transmission fiber		Single mode 9/125um, Multir	mode 50/125um, 62.5/125um	
Transmission distance		Single mode20/40/60/80/	/100km, Multimode 2~5km	
Bit error rate of optical line		≤ 10 ⁻⁹		
Transmitted optical power		≥-8	ldBm	
Reception sensitivity		≤ -20dBm		
Technical Standard				
Standard	RS232/RS485/RS422			
Indicator Light				
Power		PC	OW	
Main/Slave station			-	
Run		TX、R)	X、RXD	
Power				
Voltage		DC18~72V; AC85~	264V / DC110~370V	
Consumption		< 1W@DC24V,	< 1W@AC220V	
Protection	Overload protection, 600W/ms lightning protection, 15KV electrostatic protection			
Working Environment				
Working temperature	-40°C ~+85°C			
Ambient humidity	5%-95% (non-condensing)			
Physical Parameter				
IP protection	IP40			
Dimension(L)*(W)*(H)(mm)		482.6*	*44*210	

Industrial Device Networking

Serial to Fiber Converter			
Model	CSF208-F	CSF204-F	



Serial Port			
Port type	RS232/485/422 are available	RS232/485/422 are available	
Num. of serial port	8	4	
Rate	300bps~115200bps	300bps~115200bps	
Signal delay	-	-	
Protection	-	-	
Terminal resistance	-	-	
Fiber Port			
Port type	Single mode/multimode	Single mode/multimode	
Num. of fiber port	1	1	
Wavelength	Single mode 1310/155	0nm, Multimode 850/1310	
Transmission fiber	Single mode 9/125um, Mu	ltimode 50/125um, 62.5/125um	
Transmission distance	•	/100km, Multimode 2~5km	
Bit error rate of optical line	≤ 10 ⁻⁹		
Transmitted optical power	> -10dBm		
Reception sensitivity	≤ -34dBm		
Technical Standard			
Standard	RS232/R	S485/RS422	
Indicator Light			
Power		POW	
Main/Slave station		-	
Run	TXD、RXD、TX1-	-TX8、RX1-RX8、ERR	
Power			
Voltage	DO	C5~12V	
Consumption		<5W	
Protection	600W/ms lightning protection, 15KV electrostatic protection		
Working Environment			
Working temperature	-20°C ~+75°C		
Ambient humidity	5%~95% (non-condensing)		
Physical Parameter			
IP protection		IP30	
Dimension(L)*(W)*(H)(mm)	225*96*30	136*90*30	



Serial to Fiber Converter Model CSF201 CSF201-KG





Serial Port			
Port type	Terminals/DB9	Terminals	
Num. of serial port	1	1	
Rate	300bps~115.2Kbps	300bps~115.2Kbps	
Signal delay	100ns	100ns	
Protection	15KVESD	15KVESD	
Terminal resistance	External connection	External connection	
Fiber Port			
Port type	Single mode/multimode	Single mode/multimode	
Num. of fiber port	1	1	
Wavelength	Single mode 1310/1550nr	n, Multimode 850/1310nm	
Transmission fiber	Single mode 9/125um, Multin	mode 50/125um, 62.5/125um	
Transmission distance	Single mode20/40/60/8	30km, Multimode 2~5km	
Bit error rate of optical line	≤ 10 ⁻⁹	-	
Transmitted optical power	≥-8dBm		
Reception sensitivity	≤-20dBm		
Technical Standard			
Standard	RS232/RS-	485/RS422	
Indicator Light			
Power	PC	DW .	
Main/Slave station		-	
Run	TX/RX/GND	TX、RX、GND、T+(A+)、T-(B-)、R+、R-、GND	
Power			
Voltage	DC5~36V	DC9~60V, AC85~264V/DC110~370V	
Consumption	<20mA@DC24V; <0.3W@DC24V	<0.2W@DC24V、<0.2W@AC220V	
Protection	Overload protection, 600W/ms lightning protection, 15KV electrostatic protection	15KV electrostatic protection	
Working Environment			
Working temperature	-40°C ~+85°C	-20°C ~+85°C	
Ambient humidity	5%~95% (non-condensing)	5%~95% (non-condensing)	
Physical Parameter			
IP protection	IP40	IP40	
Dimension(L)*(W)*(H)(mm)	96*90*26	118*35*88	

Industrial Device Networking

Serial to Fiber Converter			
Model	CSF501	CSF501-KG	CSF-CAN-F
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Serial Port			
Port type	RS232/RS485/RS422 are available	RS232/RS485/RS422 are available	-
Num. of serial port	1	1	-
Rate	300bps~115.2Kbps	300bps~115.2Kbps	300bps~300Kbps
Signal delay	-	-	-
Protection	-	-	-
Terminal resistance	-	-	-
Fiber Port			
Port type	Single mode/multimode	Single mode/multimode	Single mode/multimode
Num. of fiber port	2	2	1
Wavelength	-	-	Single mode 1310/1550nm, Multimode 850/1310nm
Transmission fiber	Single	e mode 9/125um, Multimode 50/125um, 62.5/12	5um
Transmission distance	-	-	Single mode20/40/60/80km, Multimode 2~5km
Bit error rate of optical line		≤ 10 ⁻⁹	
Transmitted optical power	-8.5dBm	-8.5dBm	-8.8dBm
Reception sensitivity	-38dBm	-38dBm	-20dBm
Technical Standard			
Standard	RS232/RS485/RS422	RS232/RS485/RS422	CAN Bus
Indicator Light			
Power	-	PWR1/PWR2	POW
Main/Slave station	MAIN/SUB	MAIN/SUB	-
Run	LOOPA/B, TXA/B, RXA/B, TXD, RXD	LOOPA/B, TXA/B, RXA/B, TXD, RXD	-
Power			
Voltage	DC9~30V	DC9~60V, AC85~264V/DC110~370V	
Consumption	<2W(MAX)	<5W(MAX)	<300mA
Protection	Overload protection, 600W/ms lightning protection, 15KV electrostatic protection	Overload protection, 600W/ms lightning protection, 15KV electrostatic protection	-
Working Environment			
Working temperature	-20°C ~+75°C	-20°C ~+75°C	-40°C ~+85°C
Ambient humidity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
IP protection	IP30	IP30	-
Dimension(L)*(W)*(H)(mm)	110*100*28	140*35*100	103*72*34



Interface Converter Model CSE485-TD CSE485-TDM





Specification Parameter		
Interface standard	RS232/485/422	RS232/485/422
Interface form	DB9 for RS232 at one end, 10-pin terminal block at the other end	DB9 for RS232 at one end, 10-pin terminal block at the other end
Transmission mode	Arynchronous semi/full duplex, transparent transmission	Arynchronous semi/full duplex, transparent transmission
Transmission rate	300bps~115200bps	300bps~115200bps
Power supply	External power supply of DC5V or DC9~30V	External power supply of DC5V or DC9~30V
Isolation protection	Isolation for 2 ends signals	Isolation for 3 ends signals and power

Model	CSE232-H4	CSE485-H4	CSE485-HUB4	CSE485-HUB8
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Specification Paramete	er			
Interface standard	RS232	RS232/485	RS232/485/422	RS232/485/422 standard
Input interface	RS232	RS232/485	RS232/485/422	RS232/485/422
Output interface	4-way RS232	4-way RS485	4-way RS232/485/422	8-way RS485/422
Interface form	10-pin terminal block at 2 ends	10-pin terminal block at 2 ends	DB9M connectors at 2 ends	Terminal block at 2 ends
Transmission mode	Arynchronous full-duplex, transparent transmission	Arynchronous semi/full duplex, transparent transmission	Arynchronous semi/full duplex, transparent transmission	Arynchronous semi/full duplex, transparent transmission
Transmission rate	300bps~115200bps	300bps~115200bps	300bps~115200bps	300bps~115200bps
Power supply	External power supply of DC5V or DC9~30V	External power supply of DC5V or DC9~30V	External power supply of DC5V	External power supply of DC5V

Model CSE810 CSE820A CSE820B CSE814









Specification Parameter				
Interface standard	USB1.0/1.1	USB2.0 and RS485/422	USB2.0 and RS232/485/422	USB2.0 and RS232
Conversion interface	RS232	RS485/422	RS232/485/422	4-way RS232
Direction control	Data flow automatic control	Data flow automatic control	Data flow automatic control	Data flow automatic control
Interface form	DB9M connectors	5-pin terminal block	10-pin terminal block	10-pin terminal block
Transmission mode	Arynchronous full-duplex, transparent transmission	Arynchronous semi/full duplex, transparent transmission	Arynchronous semi/full duplex, transparent transmission	Arynchronous semi/full duplex, transparent transmission
Transmission rate	110bps~115200bps	0~12Mbps	0~12Mbps	0~115200bps
Load capacity	Point to point	Multi-communication(128 nodes)	Point to point multi-drop communication(128 nodes)	Point to point

Industrial Device Networking

Interface protector						
Model	CSE485-Y	CSE485-YGS	CSE485-YG	CSE485-YGM		
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Specification Parameter				
Serial port	RS485/422	RS485	RS485/422	RS485/422
Baud rate	300bps~115200bps	300bps~38400bps	300bps~115200bps	300bps~115200bps
Connection method	DB9M/6-pin terminal block	DB9M/6-pin terminal block	10-pin 5.08mm terminal block	10-pin 5.08mm terminal block
Transmission distance	1.2km(19200bps)	1.2km(19200bps)	1.2km(19200bps)	1.2km(19200bps)
Power input	DC5V	DC5V	DC5V or DC9~30V	DC5V or DC9~30V
Working current	<15mA	<15mA	<20mA	<20mA
Dimension (L)*(W)*(H) mm	107*33*17	107*33*17	103*72*34	103*72*34
Operating temperature	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+85°C	-40°C ~+85°C
Electrostatic protection	15kV	15kV	15kV	15kV
Lightning protection	600W/ms	600W/ms	600W/ms	600W/ms
Photoelectric isolation	-	2.5kV	2.5kV	2.5kV
Load capacity	-	-	128 nodes	128 nodes

Network Management Software

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System Introduction

MaxView Network Management System is a comprehensive management software for industrial Ethernet switches. MaxView uses a unified user interface to uniformly manage and detect topology of all network-managed industrial Ethernet switches produced by our company.

MaxView implements the following main functions: batch setting of switch IP, network topology query, log system, real-time alarm, switch setting, etc. And cross-platform transplantation supports Linux system; supports automatic detection of topology map to improve the accuracy of real-time changes of topology map; supports timed detection of topology map function. After turning it on, set a time, the background will automatically obtain a new topology map and compare it with the existing topology map. If the abnormal part of the existing topology map is normal in the newly generated topology map, it will be restored to normal. If the normal part of the existing topology map is abnormal in the newly generated part, it will be displayed as abnormal. After turning on the timed detection of topology map function, the accuracy of the topology map can be guaranteed.

SNMP supports V3 protocol, and the authentication mode supports SHA1, MD5, and AES256 encryption protocols. The encryption mode supports AES, AES192, AES256, and DES encryption protocols.

SNMP scanning also adds fast scanning and precise scanning modes. The quick scan has a short scan time and low accuracy. The precise scan has a long scan time and high accuracy.

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System Parameter



Product Function	CSViewPro			
SNMP	SupportV1/V2C/V3/TRUNK			
General management interface	Support version 3.0			
LLDP topological graph	Support accurate topology display			
Automatically detect topolpgy	Support			
License authorization	Support			
Export topology	Support			
Operating system	Support Windows/Linux(x86, arm)			
Scanning device	Support			
Modify IP	Support			
Generate topology map	Support			
Refresh the yopology	Support			
SNMP + Ping scan	Support			
LLDP protocol	Support			
LLDP topology	Support			
Customized topology	Support			
User management	Support			
Cross-routing	Support			

Accessories Selection

Accessories



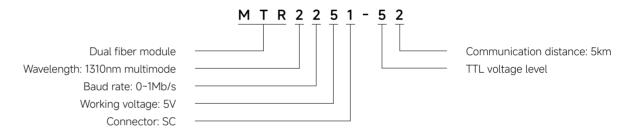






Industrial-grade Optic Module

■ Industrial-grade Optic Module



■ The module naming notes

MXX	×	×	×	×	×	×	×	×
Device category	Transmit wavelength and more	Baud rate	Working voltage	Connector	Power	Voltage level	Communi- cation distance	Single transmit and single receive
TB:single fiber module TR:dual fiber module TD:DFB module TN:rate symmetric single fiber module TRR:dual receiving module TRT:dual transmit module SFP:SFP dual fiber module SFP:SFP single fiber module	1:850nm multimode/PIN TIA 2:1310nm multimode/PIN TIA 3:1310nm single mode LD/PIN TIA 4:1550nm single mode LD/PIN TIA	1:0-200Kb/s 2:0-1Mb/s 3:0-10Mb/s 4:84Mb/s 5:155Mb/s 6:200Mb/s 7:622Mb/s 8:1.25Gb/s 9:2.5Gb/s 0:10G/s	3:3.3V 5:5V	1:SC 2:ST metal 3:FC 4:Pigtail type 5:LC 6:ST plastic	Omitted: ordinary type A: low power type	1:PECL 2:LVPECL 3:LVDS 4:LVTTL 5:TTL	0:550m 1:2km 2:10km 3:20km 4:40km 5:60~70km 6:80~100km 7:Over 100km 8:Over 120km	Omitted: intergrated transmit and receive T:single transmit R:single receive



Industrial grade gigabit SFP module list

	Port description						
Recommended model	Single/multi-mode	Connector	Wavelength	Transmission distance			
MSFP1835-20	Multimode	LC	850nm	0.55km			
MSFP1835-20	Single mode	LC	1310nm	10km			
MSFP3835-23	Single mode	LC	1310nm	20km			
MSFP3538-24	Single mode	LC	1310nm	40km			
MSFP3538-25	Single mode	LC	1350nm	70km			

Fiber Patch Cord

Fiber patch cord is the fiber cable with connector plugs both endsto realize jump connection ofthe fiber; One end is equipped witha plug, commonly known as tail fiber. With different typesconnector plugs at both ends, which is called bridge wiring. It is divided into single mode, multimode and data fiber types. The plugs are FC, SC, ST, MU and LC, and the end faces are PC, UPCand APC.

Main features

- Low insertion loss;
- Large return loss;
- Good temperature stability;
- Good repeatability;
- Good interchangeability;
- Applied to fiber communication system, fiber access network, local network, fiber data transmission, fiber CATV and fiber testing equipment.

Fiber Patch Cord

Main features

- Good mechanical and temperature characteristics;
- The sleeve has good water resistance and high strength, which provides key protection for the optical fiber;
- Specially designed compact optical cable structure;
- Good compression resistance and softness;
- Double sided chrome coated plastic coated steel strip(PSP) improves the moisture resistance ofoptical cable;
- Two parallel steel wires ensure the tensile strength of the optical cable:
- Polyethylene (PE) sheath has good ultraviolet radiationresistance, small diameter, light weight and easy to lay;
- Working temperature:-40 °C ~+70 °C;
- Suitable for pipeline, overhead and direct burial.

Fiber Terminal Box

It is used for the termination and fixation of optical cables, the fusion of optical fibers and pigtails, and the storage and protection of surplus fibers. It is a device with connection function in optical fiber communication lines. According to the installation mode, it can be divided into wall mounted and rack mounted models.

Main features

- The material is high-quality steel plate, and the surface is sprayed with plastic. The appearance is beautiful and solid;
- Large disk design;
- 2/4 cable inlets optional; Multiple fiber output modesoptional;
- Rubber fiber outlet protection;
- Workingtemperature:-25°C ~70°C;
- Withstand voltage strength: no breakdown and flashoverunder 15kVDC for 1min;
- Bending radius ofoptical fiberin storage tray: >40mm,

Fiber Terminal Box

Main features

 Optical fiber flange (also known as optical fiber adapter) is used for docking between plugs of optical fiber movable connectors, and is a link component in optical fiber connection, such as FC and FC, st and St, SC and SC. This is the engineering application. Widely used in optical fiber communication system, optical distribution frame (ODF), optical fiber data Network, optical fiber CATV and other projects.