Connecting the World, Bridging the Future

COME-STAR

PRODUCT CATALOG

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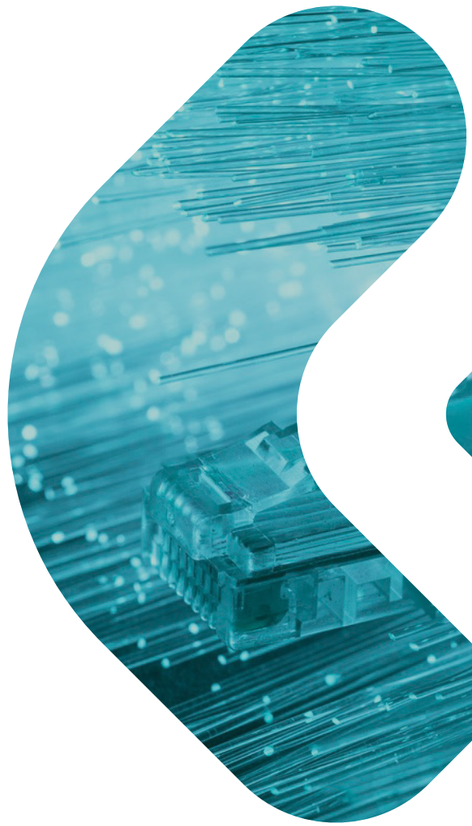
COME-STAR

PRODUCT CATALOG



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

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 processing.

10,000+
Partners

63+
Countries and Regions

100+
Patents

5,000w+
Devices Connected

HONOR AND CORE TECHNOLOGY


Patent


Certificate of Computer Software Copyright Registration


State Grid Class A Certification


Ministry of Public Security Certification


Rail Transit Industry-Environment/EMC Testing


CE/FCC/RoHS


New Energy - C4 Anticorrosion Inspection


Military Equipment-Salt Spray Detection


ISO


CCC

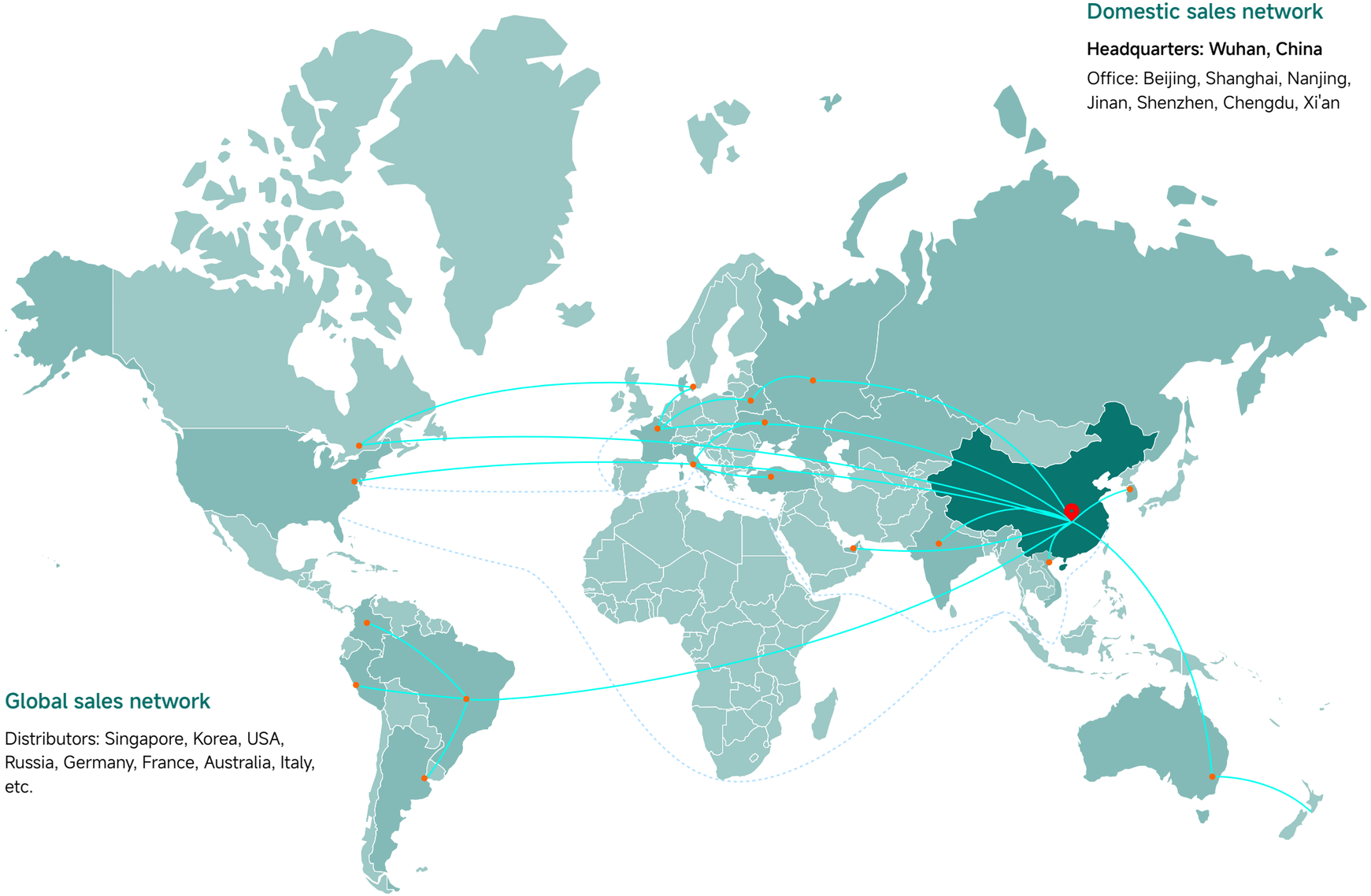

EAC


UL


FSB


UKCA

SALES NETWORK



Domestic sales network

Headquarters: Wuhan, China

Office: Beijing, Shanghai, Nanjing, Jinan, Shenzhen, Chengdu, Xi'an

Global sales network

Distributors: Singapore, Korea, USA, Russia, Germany, France, Australia, Italy, etc.

Presale
- Determine the software/hardware solution suitable for the user.
- Provide hardware platform testing close to user requirements.

After sale
- 7*24H technical support
- Product selection and project application design
- Pointed engineerfor key client and project

Principle design
- Develop R&D plans according to user needs
- Internal closed feasibility test
- Identify key technologies and key compone-nt

Engineering
- Engineering testing and design reviews
- Adopt reasonable suggestions from users

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

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

WHY CHOOSE US

R&D Strength

Our skilled and experienced R&D team boasts strong capabilities in independent research and innovation.

Customized Service

OEM & ODM service are available for large projects!

Product Quality Assurance

We prioritize product quality and reliability.Utilizing high-quality raw materials and components, our products undergo rigorous testing and quality control measures. With over 100 stringent tests, we ensure the utmost reliability and stability in our offerings

Turnkey Solution

Deliver complete communication equipment solutions encompassing switches, routers, optical communication equipment, and more, alongside related software and services.

Global Market Presence

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 commitment to excellence.

Fast Response

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 support services.

CATALOG

INDUSTRIAL
ETHERNET SWITCH

Layer 3 Core Switch

Layer 2 Managed Industrial Ethernet Switch

01

Unmanaged Industrial Ethernet Switch

Managed Industrial PoE Switch

Ummanaged Industrial PoE Switch

Industrial Fiber Optic Converter

VDSL Ethernet Extender

Industrial Ethernet Switch

Layer 3 Core Switch

Model	CISCOM8056GX-8XGF-48GT	CISCOM8052GX-4XGF-48GT	CISCOM8036GX-4XGF-24GF-8GT
			
Port Number	**56**	**52**	**36**
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	48	48	8
100M fiber port	-	-	-
1000M fiber port	-	-	24
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℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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
ACL	Support	Support	Support
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 3 Core Switch

Model	CISCOM8032GX-8XGF-24GT	CISCOM8030GX-6XGF-16GF-8GC	CISCOM8028GX-4XGF-16GF-8GC
			
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			
Power input	AC85~260V (50/60Hz)/DC100~380V	DC18~72V , AC85~264V/DC110~370V	DC18~72V, AC85~264V/DC110~370V
Consumption	<45W@AC220V	<47W@DC24V <46W@DC48V <48W@AC220V	<40W@AC220V
Working Environment			
Operatng temperature	-40℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+70℃
Ambient hurnicrty	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	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
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
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 3 Core Switch

Model	CISCOM8028GX-4XGF-8GC-16GT	CISCOM8028GX-4XGF-24GT	CISCOM8028GX-4XGF-8GT-16F
			
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@DC24V <22W@DC48V <22W@AC220V	<29W@AC220V
Working Environment			
Operatng temperature	-40℃ ~+70℃	-40℃ ~+75℃	-40℃ ~+75℃
Ambient hurnicrty	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*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			
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

Industrial Ethernet Switch

Layer 3 Core Switch

Model	CISCOM8020G-4GF-16GT	CISCOM8220G-4GF-16GT	CISCOM8220GX-4XGF-8GF-8GT
			
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			
Operatng temperature	-40℃ ~+70℃	'-40℃ ~+70℃	'-40℃ ~+75℃
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

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CISCOM7028GX-4XGF-16GF-8GC	CISCOM7028GX-4XGF-8GC-16GT	CISCOM7028G-4GC-24GT
			
Port Number	**28**	**28**	**28**
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	-	16	24
100M fiber port	-	-	-
1000M fiber port	16	-	-
10G SFP+ fiber port	4	4	-
Gigabit combo port	8	8	4
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℃ ~+70℃	-40℃ ~+70℃	-40℃ ~+75℃
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			
Qos/Vlan	Support	Support	Support
Port Static Trunk/LACP	Support	Support	Support
IGMPv1/v2/v3 multicast	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	-	-	-
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-16GT
			
Port Number	**28**	**28**	**28**
10/100 RJ45 port	24/20/16/8	-	-
10/100/1000 RJ45 port	-	-	16
100M fiber port	0/4/8/16	24	-
1000M fiber port	-	4	4
10G 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
Consumption	@AC220V: <15W @DC48V: <12W	<40W	<28W@DC24V <27W@DC48V <30W@AC220V
Working Environment			
Operating temperature	-40℃ ~+75℃	-40℃ ~+70℃	-40℃ ~+75℃
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*210	482.6*44*315	482.6*44*210
Switching Performance			
Switching bandwidth	12.8Gbps	12.8Gbps	56Gbps
MAC table	8K	8K	8K
IGMP 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	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
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CISCOM7028G-12GF-8GC-8GT	CISCOM7020G-4GC-16GT	CISCOM7214GX-2XGF-4GF-8GT
			
Port Number	**28**	**20**	**14**
10/100 RJ45 port	-	-	-
10/100/1000 RJ45 port	8	16	8
100M fiber port	-	-	-
1000M fiber port	12	-	4
10G 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℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+85℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	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
IGMP group	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	-
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
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CISCOM7220G-4GF-16GT	CISCOM7212G-4GF-8GT	CISCOM7220-4GF
			
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℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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
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
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CISCOM7220-4GF-4F	CISCOM7220-4GF-8F	CISCOM7210-2GF
			
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			
Power input	DC9~18V/DC18~36V DC36~72V AC85~264V/DC110~370V	DC9~18V/DC18~36V DC36~72V AC85~264V/DC110~370V	DC9~60V AC85~264V/DC110~370V
Consumption	<14W@DC24V	<16W@DC24V	<6W@DC24V
Working Environment			
Operating temperature	-40℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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*74*122	140*54*110
Switching Performance			
Switching bandwidth	12.8Gbps	12.8Gbps	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
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
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CISCOM7210-2GF-2F	CISCOM7209-3GF	CISCOM7210G-2GF-8GT
			
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 AC85~264V/DC110~370V	DC9~60V AC85~264V/DC110~370V
Consumption	<6W@DC12V	<6W@DC24V	<10W@DC24V
Working Environment			
Operating temperature	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+75℃
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
IGMP 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
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CISCOM7206G-2GF-4GT	CISCOM6024	CISCOM6024-4F
			
Port Number	**6**	**24**	**24**
10/100 RJ45 port	-	24	20
10/100/1000 RJ45 port	4	-	-
100M fiber port	-	-	4
1000M fiber port	2	-	-
10G 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
Working Environment			
Operating temperature	-40℃ ~+85℃	-40℃ ~+75℃	-40℃ ~+75℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	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
MAC table	2K	8K	8K
IGMP group	-	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
MSTP/RSTP/STP	Support	Support	Support
Layer 3 Software Property			
Layer 3 routing	-	-	-
Multicast routing	-	-	-
VRRP	-	-	-
Management			
SNMPv1/v2c/v3	-	Support	Support
LLDP	-	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
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CISCOM6024-8F	CISCOM6024-16F	CISCOM6026-2F
			
Port Number	**24**	**24**	**26**
10/100 RJ45 port	16	8	24
10/100/1000 RJ45 port	-	-	-
100M fiber port	8	16	2
1000M fiber port	-	-	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	AC85~264V/DC110~370V DC18~75V	AC85~264V/DC110~370V DC18~75V	AC85~264V/DC110~370V
Consumption	<16.5W@AC220V	<16.5W@AC220V	<9W@AC220V
Working Environment			
Operating temperature	-40℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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*210	482.6*44*210	482.6*44*210
Switching Performance			
Switching bandwidth	12.9Gbps	12.10Gbps	12.8Gbps
MAC table	9K	10K	8K
IGMP 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
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CISCOM6220-4F	CISCOM6218-2F	CISCOM6216
			
Port Number	**20**	**18**	**16**
10/100 RJ45 port	16	16	16
10/100/1000 RJ45 port	-	-	-
100M fiber port	4	2	-
1000M fiber port	-	-	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V AC85~264V/DC110~370V	DC9~60V AC85~264V/DC110~370V	DC9~60V AC85~264V/DC110~370V
Consumption	<12W@DC24V	<10W@DC24V	<8W@DC24V
Working Environment			
Operating temperature	-40℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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*74*122	160*74*122
Switching Performance			
Switching bandwidth	12.8Gbps	12.8Gbps	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
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
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CISCOM6208	CISCOM6208-2F	CISCOM6208-4F
			
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	-	-	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V AC85~264V/DC110~370V	DC9~60V AC85~264V/DC110~370V	DC9~60V AC85~264V/DC110~370V
Consumption	<8W@DC25V	<8W@DC26V	<6W@DC26V
Working Environment			
Operating temperature	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃
Ambient humicrty	5%~95% (non-condensing)	5%~96% (non-condensing)	5%~96% (non-condensing)
Physical Parameter			
Installation	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	140*54*110	140*54*110	140*54*110
Switching Performance			
Switching bandwidth	2Gbps	2Gbps	2Gbps
MAC table	2K	2K	2K
IGMP 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
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CIEN5208	CIEN5208-2F	CIEN6208-4F
			
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	-	-	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V AC85~264V/DC110~370V	DC9~60V AC85~264V/DC110~370V	DC9~60V AD220
Consumption	<2W@DC12V<2W@AC220V	<3W@DC12V <3W@AC220V	<6W@DC24V
Working Environment			
Operating temperature	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃
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	140*54*110	140*54*110	140*54*110
Switching Performance			
Switching bandwidth	1.8Gbps	1.8Gbps	2Gbps
MAC table	2K	2K	2K
IGMP group	-	-	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
LLDP	-	-	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	-	-	-
RADIUS	Support	Support	Support

Industrial Ethernet Switch

Layer 2 Managed Industrial Ethernet Switch

Model	CISCOM7210GBP-2GTS-8GT	CISCOM7208BP-2GTS
		
Port Number	**10**	**8**
10/100 RJ45 port	-	6
10/100/1000 RJ45 port	8	-
100M fiber port	-	-
1000M fiber port	2	2
10G SFP+ fiber port	-	-
Gigabit combo port	-	-
Power		
Power input	DC12~48V	DC9~60V
Consumption	<12W@DC24V	<6W@DC24V
Working Environment		
Operating temperature	-40℃ ~+75℃	-40℃ ~+85℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter		
Installation	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
IGMP group	Support	Support
Basic Function		
Qos/Vlan	Support	Support
Port Static Trunk/LACP	Support	Support
IGMPv1/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		
Layer 3 routing	-	-
Multicast routing	-	-
VRRP	-	-
Management		
SNMPv1/v2c/v3	Support	Support
LLDP	Support	Support
DHCP	-	-
RMON	Support	Support
GVRP	-	-
GMRP	-	-
Device management	Support	Support
Security		
802.1X	Support	Support
HTTPS/SSL	Support	Support
Port security binding	Support	Support
ACL	Support	-
RADIUS	Support	Support

Industrial Ethernet Switch

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		
Power input	DC9~60V AC85~264V/DC110~370V	DC9~60V
Consumption	<5W@DC26V	<2.9W@DC24V（F） <3.7W@DC24V（2F）
Working Environment		
Operating temperature	-40℃ ~+85℃	-40℃ ~+85℃
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	-
IGMPv1/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	Support	-
LLDP	Support	-
DHCP	-	-
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

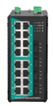
Model	CIEN3028G-4GC-24GT	CIEN3020G-4GC-16GT	CIEN3028-4GC-0/4/8/16F	CIEN3210G-2GF-8GT
				
Port Number	**28**	**20**	**28**	**10**
10/100 RJ45 port	-	-	24/20/16/8	-
10/100/1000 RJ45 port	24	16	-	8
100M fiber port	-	-	0/4/8/16	-
1000M fiber port	-	-	-	2
10G SFP+ fiber port	-	-	-	-
Gigabit combo port	4	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				
Operating temperature	-40℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+85℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
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-4GT
				
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	-	-	-	-
Power				
Power input	DC9~60V/AC85~264V, DC110~370V	DC9~60V/AC85~264V, DC110~370V	DC9~60V	AC85~264V, DC110~370V
Consumption	<2.5W@DC24V	<3.5W@DC24V	<1.8W@DC12V	<2.5W@DC12V
Working Environment				
Operating temperature	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter				
Installation	DIN Rail	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	140*35*100	140*35*100	118*35*88	118*35*88
Switching Performance				
Switching bandwidth	16Gbps	14Gbps	14Gbps	14Gbps
MAC table	4K	2K	2K	2K
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℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+75℃
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℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+75℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	DIN Rail	DIN Rail	Rack Mount
Dimension (L)*(W)*(H) mm	160*74*122	160*74*122	482.6*44.210
Switching Performance			
Switching bandwidth	12.8Gbps	12.8Gbps	8.8Gbps
MAC table	8K	8K	8K
IGMP group	-	-	-

Industrial Ethernet Switch

Unmanaged Industrial Ethernet Switch

Model	CIEN2024-0/4/8/16F	CIEN2018-2F	CIEN2016
			
Port Number	**24**	**18**	**16**
10/100 RJ45 port	24	16	16
10/100/1000 RJ45 port	-	-	-
100M fiber port	-	2	-
1000M fiber port	-	-	-
10G SFP+ fiber port	-	-	-
Gigabit combo port	-	-	-
Power			
Power input	DC9~60V, AC85~264V/DC110~371V	DC9~60V, AC85~264V/DC110~370V	AD220V, DC18~72V
Consumption	<8/16.5/16.5/16.5/16.5W(MAX)	<8W@AC220V	<8W(MAX)
Working Environment			
Operating temperature	-40℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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	8.8/12.8/12.8/12.8/12.8Gbps	8.8Gbps	8.8Gbps
MAC table	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
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/DC110~371V
Consumption	<3W@24V(MAX)	<1.8W@DC24V	<5W@DC24V
Working Environment			
Operating temperature	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃
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	140*35*110	140*54*110
Switching Performance			
Switching bandwidth	4.8Gbps	1.6Gbps	1.6Gbps
MAC table	8K	2K	2K
IGMP group	-	-	-

Industrial Ethernet Switch

Unmanaged Industrial Ethernet Switch

Model	CIEN2208-2F	CIEN2208-4F	CIEN2208E	CIEN2206-2F
				
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/DC110~371V
Consumption	<5W@DC24V	<5W@24V	<1.8W@DC24V	<2.5W@DC24V
Working Environment				
Operating temperature	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
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
			
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	DC9~60V, AC85~264V/DC110~371V	DC9~60V, AC85~264V/DC110~371V
Consumption	<1.5W@DC24V	<1.8W@24V	<2.3W@DC24V
Working Environment			
Operating temperature	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃
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
Switching Performance			
Switching bandwidth	1Gbps	1Gbps	1Gbps
MAC table	2K	2K	2K
IGMP group	-	-	-

Industrial Ethernet Switch

Managed Industrial PoE Ethernet Switch

Model	CISCOM8028GP	CISCOM7028GP	CISCOM7212GP	CISCOM7210GP
				
Port Number	**28**	**28**	**12**	**10**
10/100/1000M PoE port	24	24	8	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, <33W@AC220V	<21W@DC48V, <32W@AC220V	<12W@DC48V(No PD)	<8W@DC48V(No PD)
Working Environment				
Operating temperature	-40℃ ~+70℃	-40℃ ~+70℃	-40℃ ~+75℃	-40℃ ~+75℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
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	Support	Support	Support	Support
IGMP snooping	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	-	-	-
Port security binding	Support	-	-	-
ACL	Support	-	-	-
RADIUS	Support	-	-	-

Industrial Ethernet Switch

Ummanaged Industrial PoE Ethernet Switch

Model	CIEN3210GP-2GF-8GTPoE	CIEN3206GP-2GF-4GTPoE	CIEN3205GP-GF-4GTPoE
			
Port Number	**10**	**6**	**5**
10/100/1000M PoE copper port	2	2	1
1000M SFP port	8	4	4
10G 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℃ ~+85℃	-40℃ ~+75℃	-40℃ ~+75℃
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	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			
IEEE802.3af/at	Support	Support	Support

Industrial Fiber Optic Converter

Model	CT8110-F	CT3110-GF	CIEN1203-F	CIEN1203G-GF-2GT
				
Port Number				
10/100M RJ45 port	1	-	2	-
10/100/1000M RJ45 port	-	1	-	2
100M fiber port	1	-	1	-
1000M fiber port	-	1(SC/ST/FC Available)	-	1
10G SFP+ fiber port	-	-	-	-
Gigabit combo port	-	-	-	-
Power				
Power input	DC5V, AC/DC22V	DC5V, AC/DC220V	DC9~60V, AC/DC220V	DC9~60V, AC/DC220V
Consumption	<2.5W@DC24V	<3W@DC24V	<1.5W@DC24V	<1.7W@DC12V
Working Environment				
Operating temperature	0℃ ~+70℃	0℃ ~+70℃	-40℃ ~+85℃	-40℃ ~+85℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter				
Installation	Desktop	Desktop	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	DC model: 95*70 *26 AC model: 140*110*30	DC model: 95*70 *26 AC model: 140*110*30	118*35*88	118*35*88
Switching Performance				
Switching bandwidth	-	-	20Gbps	14Gbps
MAC table	-	-	1.5Mbit	2Mbit
IGMP group	1K	2K	4K	2K

Industrial Ethernet Switch

VDSL Ethernet Extender

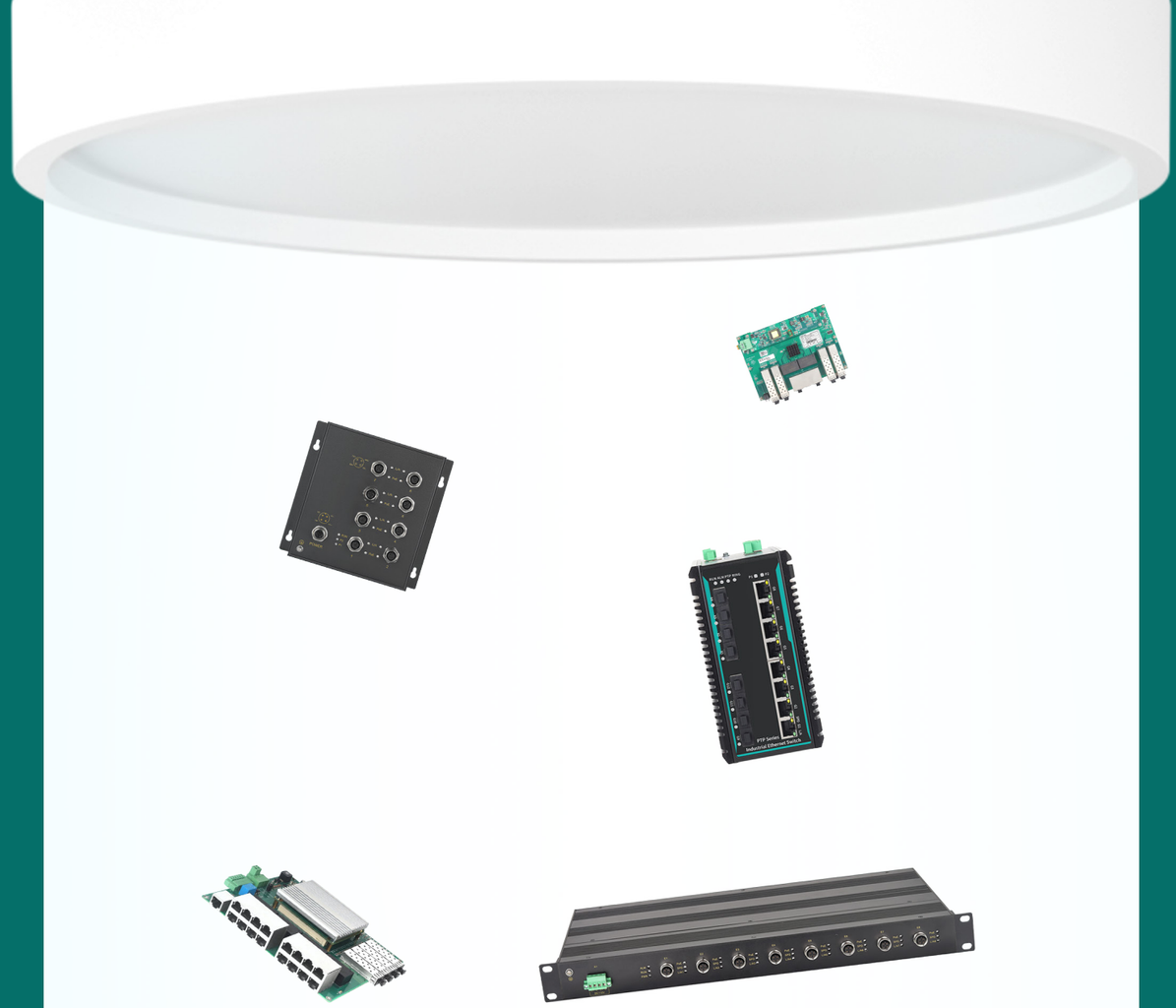
Model	CES1101	CES1204	CES1204-2F
			
Port Number			
10/100M RJ45 port	1	4	2
10/100/1000M RJ45 port	-	-	-
100M fiber port	-	-	2
1000M fiber port	-	-	-
10G SFP+ fiber port	-	-	-
DSL interface	1	2	2
Power			
Power input	DC9~24V	DC9~24V	DC9~24V
Consumption	<1.2W@DC12V	<4.5W@DC12V	<4.5W@DC12V
Working Environment			
Operating temperature	-20℃ ~+75℃	-20℃ ~+75℃	-20℃ ~+75℃
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
		
Port Number		
10/100M RJ45 port	4	2
10/100/1000M RJ45 port	-	-
100M fiber port	-	2
1000M fiber port	-	-
10G 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℃ ~+75℃	-20℃ ~+75℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter		
Installation	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
IGMP group	2K	2K

02

INDUSTRIAL
SPECIFIC SWITCH

Embedded Ethernet Switch



Rail Transit Switch

IEC61850-3 Industrial Ethernet Switch

Industrial Control Switch

TSN Ethernet Switch

PTP Ethernet Switch

Industrial Specific Switch

Embedded Ethernet Switch

Model	CES8112GX-4XGF-8GC	CES7110GX-2XGF-4GF-4GT	CES7106GX-2XGF-4GT
			
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℃ ~+70℃	-40℃ ~+85℃	-40℃ ~+85℃
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			
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

Embedded Ethernet Switch

Model	CES8120G-4GF-16GT	CES7112G-4GF-8GT	CES3106G-3GF-3GT	CES3106G-2GF-4GT
				
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				
Operating temperature	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~96% (non-condensing)
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				
MW-Ring	Support	-	-	-
ERPS/EAPS	Support	-	-	-
MSTP/RSTP/STP	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	-	-
ACL	Support	Support	-	-
RADIUS	-	-	-	-

Industrial Specific Switch

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				
Operating temperature	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃
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				
MW-Ring	Support	Support	Support	Support
ERPS/EAPS	Support	Support	Support	Support
MSTP/RSTP/STP	RST/STP	Support	Support	Support
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

Embedded Ethernet Switch

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℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+85℃	-40℃ ~+85℃
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	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	-	-	-	-

Industrial Specific Switch

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℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃
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℃ ~+85℃	-40℃ ~+85℃
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	-	-

Industrial Specific Switch

Rail Transit Switch

Model	CTS2208P-M12-8TPoE	CTS6008P-M12-8TPoE	CTS7116BP-M12-4GT-8TPoE	CTS7014BP-M12-4GT-10TPoE
				
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				
Operating temperature	-40℃ ~+70℃	-40℃ ~+70℃	-40℃ ~+65℃	-40℃ ~+70℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter				
Installation	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	-	Support	Support	Support
Port static trunk/LACP	-	Support	Support	Support
IGMP v1/v2/v3 multicast	-	-	-	Support
Redundancy Protocol				
MW-Ring	-	Support		Support
ERPS/EAPS	-	Support	Support	Support
STP/RSTP	-	Support	Support	Support
Layer 3 Software Property				
Layer 3 routing	-	-	-	-
Multicast routing	-	-	-	-
VRRP	-	-	-	-
Management				
SNMP v1/v2c/v3	-	Support	Support	Support
LLDP	-	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	-
ACL	-	Support	Support	Support
RADIUS	-	Support	-	-

Industrial Specific Switch

Rail Transit Switch

Model	CTS8012G-M12-12GT	CTS8212G-M12-12GT	CTS7012G-M12-12GT	CTS7212G-M12-12GT
				
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				
Operatng temperature	-40℃ ~+70℃	-40℃ ~+70℃	-40℃ ~+70℃	-40℃ ~+70℃
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	Support	Support	Support	Support
Port static trunk/LACP	Support	Support	Support	Support
IGMP v1/v2/v3 multicast	Support	Support	Support	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				
SNMP v1/v2c/v3	Support	Support	Support	Support
LLDP	Support	Support	Support	Support
DHCP	Server	Server	Server	Server
RMON	Support	Support	Support	Support
GVRP	Support	Support	Support	Support
GMRP	Support	Support	Support	Support
Device Management	Support	Support	Support	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

Industrial Specific Switch

Rail Transit Switch

Model	CTS8116BP	CTS6116BP	CTS2209-M12
			
Port Number	**16**	**16**	**9**
10/100M M12 port	12	12	9
10/100/1000M M12 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			
Operatng temperature	-40℃ ~+70℃	-40℃ ~+85℃	-40℃ ~+85℃
Ambient hurnicrty	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	-
RADIUS	Support	Support	-

Industrial Specific Switch

IEC61850-3 Industrial Ethernet Switch

Model	CISCOM8030PTP-6XGF-16GF-8GC	CISCOM8216PTP-4XGF-4GF-8GT	CISCOM7028G-4GC-24GT
			
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℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	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
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	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
RADIUS	Support	Support	Support

Industrial Specific Switch

IEC61850-3 Industrial Ethernet Switch

Model	CISCOM7028-4GC	CISCOM7028-4GC-4F	CISCOM7028-4GC-8F
			
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℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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			
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 Specific Switch

IEC61850-3 Industrial Ethernet Switch

Model	CISCOM7028-4GC-16F	CISCOM7028-4GF-24F	CISCOM6026-2F
			
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			
Operating temperature	-40℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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 Specific Switch

Industrial Control Switch

Model	CIES205	CIES208	CIES216
			
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

Industrial Control 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℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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 Specific Switch

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℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
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

Industrial Specific Switch

TSN Ethernet Switch

Model	CISCOM7208TSN-2GF-6GT	CISCOM8036TSN-4XGF-24GF-8GT	CISCOM8216TSN-4XGF-4GF-8GT
			
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	DC24V, DC48V, AC/DC220V
Consumption	<12W@DC12V <12W@AC220V	<50W@AC220V	<27W@DC48V <27W@AC220V
Working Environment			
Operating temperature	-40℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter			
Installation	Din Rail	Rack Mount	Din Rail
Dimension (L)*(W)*(H) mm	160*58*122	482.6*44*315	160*82.5*128
Switching Performance			
Switching bandwidth	23Gbps	180Gbps	180Gbps
MAC table	8K	32K	32K
IGMP group	3K	3K	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			
IPv4、IPv6 static routing	Support	Support	Support
RIP、OSPF	-	Support	Support
RIPng、OSPFv3	-	-	-
IGMP、PIM	-	Support	Support
VRRP	-	Support	Support
Security			
802.1X 、AAA	Support	Support	Support
ACL	Support	Support	Support
SNMPv1/v2c/v3	Support	Support	Support
RMON	Support	Support	Support
LLDP	Support	Support	Support
DHCP	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	-	8
100M fiber port	16	-
1000M fiber port	-	4
10G SFP+ fiber port	6	4
Gigabit combo port	8	-
Power		
Power input	DC18-72V, AC/DC220V	DC20-72V, AC/DC220V
Consumption	<47W@DC24V <46W@DC48V <48W@AC220V	<27W@DC48V <27W@AC220V
Working Environment		
Operating temperature	-40℃ ~+75℃	-40℃ ~+70℃
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
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
DHCP	Support	Support

INDUSTRIAL
Wireless

03

Industrial WiFi Switch

AP

AC

4G Router

5G Router

Cellular Modem

Wireless Ethernet Bridge

Wireless Client

Industrial Wireless

Industrial WiFi Switch

Model	CISCOM7209W-3N25-3GF-6GTPoE	CISCOM7209W-3N25-3GF-6GT
		
Port Number	**9**	**9**
10/100/1000 RJ45 port	-	6
10/100/1000 PoE RJ45 port	6	-
100M fiber port	-	-
1000M fiber port	3	3
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℃ ~+75℃	-40℃ ~+75℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter		
Installation	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	160*58*122	160*58*122
Switching Performance		
Switching bandwidth	24Gbps	24Gbps
MAC table	8K	8K
Basic Function		
QoS/VLAN	Support	Support
Port static trunk/LACP	Support	Support
IGMPv1/v2/v3 multicast	Support	Support
Redundancy Protocol		
MW-Ring	Support	Support
ERPS	Support	Support
MSTP(STP/RSTP)	Support	Support
Layer 3 Software Property		
Layer 3 routing	-	-
Multicast routing	-	-
VRRP	-	-
Management		
SNMPv1/v2c/v3	Support	Support
LLDP	Support	Support
DHCP	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

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℃ ~+75℃	-40℃ ~+75℃
Ambient humicrty	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical Parameter		
Installation	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	160*58*122	160*58*122
Switching Performance		
Switching bandwidth	24Gbps	24Gbps
MAC table	8K	8K
Basic Function		
QoS/VLAN	Support	Support
Port static trunk/LACP	Support	Support
IGMPv1/v2/v3 multicast	Support	Support
Redundancy Protocol		
MW-Ring	Support	Support
ERPS	Support	Support
MSTP(STP/RSTP)	Support	Support
Layer 3 Software Property		
Layer 3 routing	-	-
Multicast routing	-	-
VRRP	-	-
Management		
SNMPv1/v2c/v3	Support	Support
LLDP	Support	Support
DHCP	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

AP

Model	CIAP354R-2A2	CIAP354R-3A25	CIAP625-3A25
			
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	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
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℃ ~+70℃	-40℃ ~+75℃	-40℃ ~+70℃
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
			
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			
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, 64-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)*2 5GHz antenna interfaces, N-K(female)*2
Max. transmission power	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 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	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 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	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 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
RX sensitivity	2.4GHz: -69.0dBm(VHT40/ MCS9/ 2SS) -63.0dBm(VHT40/ MCS11/ 2SS) -68.5dBm(HT40/ MCS9/ 2SS) -63.0dBm(HE40/ MCS11/ 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)	2.4GHz: -69.0dBm(VHT40/ MCS9/ 2SS) -63.0dBm(VHT40/ MCS11/ 2SS) -68.5dBm(HT40/ MCS9/ 2SS) -63.0dBm(HE40/ MCS11/ 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)	2.4GHz: -69.0dBm(VHT40/ MCS9/ 2SS) -63.0dBm(VHT40/ MCS11/ 2SS) -68.5dBm(HT40/ MCS9/ 2SS) -63.0dBm(HE40/ MCS11/ 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℃ ~+70℃	-40℃ ~+70℃	-40℃ ~+70℃
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	140*54*110	140*54*110	242.5*198.5*82

Industrial Wireless

AP

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℃ ~+65℃
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
				
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/LAN 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: n1/3/5/8/28/41/78/79 5G NSA: n41/78/79 LTE-FDD: B1/3/5/8 LTE-TDD: B34/38/39/40/41 WCDMA: B1/8
Speed	-	-	-	5G SA: DL 2.4 Gbps; UL 900 Mbps 5G NSA: DL 3.3 Gbps; UL 550 Mbps
Antenna interface	-	-	-	Mini-SIM card slot, self-popup*1
SIM card	-	-	-	Built-in high-gain antennas*4
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+4804Mbps
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 interfaces, 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 input
Power consumption	<15W	<15W	<15W	<15W
Connection method	RJ45(WAN)	RJ45(WAN)	RJ45(WAN)	RJ45(WAN)
Working Environment				
Working temperature	0℃ ~ +40℃	0℃ ~ +70℃	0℃ ~ +70℃	0℃ ~ +70℃
Relative huminity	5%~95%(non-condensing)	5%~95%(non-condensing)	5%~95%(non-condensing)	5%~95%(non-condensing)
Physical				
Installation	Ceiling Mount	Ceiling Mount	Wall Mount	Wall Mount
Dimension(L)*(W)*(H) mm	190*190*42	245*200*90	263.6*198.46*82	263.6*198.46*82

Industrial Wireless

AC

Model	CIAC5500-2GF-AD220
	
Interface	
1G 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
CONSOLE	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℃ ~+65℃
Relative huminity	5%~95%(non-condensing)
Physical	
Installation	Rack Mount
Dimension(L)*(W)*(H) mm	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℃ ~45℃	0℃ ~45℃
Relative huminity	5~95 %(non-condensing)	5~95 %(non-condensing)
Physical		
Installation	DIN Rail	Desktop/1U Rack Mount
Dimension (L)*(W)*(H) mm	110*95*25	440*250*44.5

Industrial Wireless

4G Router

Model	CIR755R-W	CIR755R-W-AU	CIR755R-W-EUX	CIR755R-W-AFX
				
Network Parameter				
Port type	RJ45			
WAN port	10/100Base-T(X) WAN/LAN port*1			
LAN port	10/100Base-T(X) LAN port*4			
Serial Port				
Port type	RS485*1			
Connection method	5.08mm pitch 5-pin terminal block			
Baud rate	300bps-230400bps			
Isolation voltage	-			
WiFi				
Quantity of antenna	2			
Working frequency	2.4GHz (2.412GHz~2.484GHz)			
Antenna interface	SMA-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-TDD: B34/38/39/40/41 WCDMA: B1/5/8 GSM/EDGE: B3/8	LTE-FDD: B1/2/3/4/5/7/8/28/66 LTE-TDD: B40 WCDMA: B1/2/4/5/8 GSM/EDGE: B2/3/5/8	LTE-FDD: B1/3/7/8/20/28A LTE-TDD: B38/40/41 WCDMA: B1/8 GSM/EDGE: B3/8	LTE-FDD: B2/4/5/12/13/14/66/71 LTE-TDD: - WCDMA: B2/4/5 GSM/EDGE: -
Quantity of antenna	1/2			
Antenna interface	SMA-K			
SIM card	Dual Nano SIM*1, dual 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	5.08mm pitch 5-pin terminal block			
Power protection	No polarity			
Working Environment				
Operating temperature	-40℃ ~+70℃			
Relative huminity	5%~95% (non-condensing)			
Physical				
Installation	DIN Rail			
Dimension (L)*(W)*(H) mm	140*35*110			

Industrial Wireless

4G Router

Model	CIR372-EC	CIR372-EAU	CIR375-G
			
Network Parameter			
Port type	RJ45	RJ45	RJ45
WAN port	-	-	WAN+1*WAN/LAN port, 10/100Base-T(X)*1
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: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66; 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	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 type 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	3..5W	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*2.1mm Round socket
Power protection	No polarity	No polarity	Anti-reverse protection
Working Environment			
Operating temperature	20℃ ~70℃	20℃ ~70℃	-20℃ ~+70℃
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	86*70*25	86*70*25	127*84*27

Industrial Wireless

4G Router

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 21Mbps/ 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℃ ~+70℃	-20℃ ~+70℃
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			
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/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: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66; 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	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 30Mbps FDD-LTE: downlink 150Mbps/uplink 50Mbps EDGE: downlink 296kbps/uplink 236.8kbps	TDD-LTE: downlink 130Mbps/uplink 30Mbps FDD-LTE: downlink 150Mbps/uplink 50Mbps EDGE: downlink 296kbps/uplink 236.8kbps
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 industrial terminal block
Power protection	No polarity	No polarity	No polarity
Working Environment			
Operating temperature	-20℃ ~+70℃	-20℃ ~+70℃	-20℃ ~+70℃
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

Industrial Wireless

5G Router

Model	CIR885-W	CIR885R	CIR785-W
			
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, WCDMA
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 standby
Working frequency	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	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	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: 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
Max. transmision power	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	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	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
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℃ ~+75℃	-20℃ ~+70℃	-20℃ ~+70℃
Relative humity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical			
Installation	Wall Mount	DIN Rail	Wall Mount
Dimension (L)*(W)*(H) mm	207*112*34.2	140*54*110	207*112*34.2

Industrial Wireless

5G Router

Model	CIR782	CIR782R	CIR584W-G
			
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	5G NR SA/NSA, LTE-FDD, LTE-TDD, WCDMA	5G NR/LTE-FDD/LTE-TDD/UMTS/HSPA+
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	(3 V/1.8 V) mini-SIM(2FF) Push-push type 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): n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/70/71/75/76/77/78/ 79; 4G LTE (CAT 19 DL / CAT 18 UL) LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/66/71; 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. 200Mbps (UL)
Max. transmision power	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	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 terminal block
Power protection	No polarity	No polarity	No polarity
Working Environment			
Operating temperature	-40℃ ~+75℃	-40℃ ~+75℃	-35℃ ~+75℃
Relative humidity	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
				
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℃~ +75℃	-35℃~ +75℃	-35℃~ +75℃	-35℃~ +75℃
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*109.7	112.2*94*28
Software				
Network protocol	TCP/UDP/IPV4/IPV6/DNS/HTTP/MQTT/SSL/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
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			10KB
Remote configuration	Support			

Industrial Wireless

Celluar Modem

Model	CGT571-E	CGT571-EAU
		
Serial Port		
Num. of ports	RS232*1+RS485*1	
Connection method	DB9 for RS232, 3-pin 3.81mm industrial terminal block for RS485	
Baud rate	1200bps-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	SMA-K	
SIM card	(3V&1.8 V) standard 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	DC9~36V	
Working current	Average 180mA/12	
Connection method	2-pin 5.08mm industrial terminal block	
Power protection	No polarity	
Working Environment		
Operating temperature	-35℃~ +75℃	
Relative huminity	5%~95% (non-condensing)	
Physical		
Installation	Wall Mount	
Dimension (L)*(W)*(H) mm	123*112*28	
Software		
Network protocol	TCP/UDPDNS/https/FTP	
User configuration	WEB, AT command	
Simple transparent transmission	TCP/UDP client, TCP/UDP server	
Working mode	NET, HTTPD	
HTTPS	Support	
SSL/TSL encryption	-	
MQTT	-	
Message	Support	
Registration/Heartbeat package	Support	
Serial port packaging mechanism	Support	
Network buffer	-	
Serial buffer	10KB	
Remote configuration	AT command	

Industrial Wireless

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
		
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℃～ +70℃	-25℃～ +75℃
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

Industrial Wireless

Wireless Client

Model	CIAP326-2A25-2D	CIAP314R-1A2-485	CIAP314R-1A2-232
			
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℃～ +70℃	-40℃～ 85℃	-40℃～ 85℃
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 topics and 16 publish topics	-	-

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℃～ +85℃	-40℃～ +85℃
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 client, MQTTclient, IGMP
Modbus Gateway	Modbus RTU/TCP protocol conversion	Modbus RTU/TCP protocol conversion
IP	DHCP/StaticIP	DHCP/StaticIP
Registration packet	√	√
Heartbeat packet	√	√
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

04

Serial Device Server

CANbus to Ethernet Gateway

Industrial Gateway

Remote I/O

Serial to Fiber Converter

Interface Converter

Interface Protector

Industrial Device Networking

Serial Device Server

Model	Cport3101R-232	Cport3101R-485	Cport3101
			
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 RS485/422
Isolation	-	-	-
Baud rate	600bps~460800bps	600bps~460800bps	600bps~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	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℃~ +85℃	-25℃~ +75℃	-25℃~ +75℃
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			
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, DNS
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/UDP Client/Httpd Client
Modbus	Modbus RTU /ASCII to Modbus TCP	Modbus RTU /ASCII to Modbus TCP	Modbus RTU to Modbus TCP, Multi-host 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	-	-	-
DDP/DC	-	-	-
Transmission delay	<10ms	<10ms	<10ms

Industrial Device Networking

Serial Device Server

Model	Cport3101-I	Cport3101-W	Cport3102R
			
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 RS485/422
Isolation	2kVDC	-	-
Baud rate	600bps~460800bps	RS232: 300 ~ 460.8Kbps; RS485: 300 ~ 230.4Kbps	600bps~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	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℃~ +85℃	-40℃~ +85℃	-40℃~ +85℃
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			
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, 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	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/UDP 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 bytes
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 TCP 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	-	-	-
Transmission delay	<10ms	<10ms	<10ms

Industrial Device Networking

Serial Device Server

Model	Cport3102	Cport3102-I	Cport3104
			
Serial Port			
Num. of serial ports	RS232*1+RS485*1	RS485/422*2	RS232/485/422*4
Connection method	DB9 for RS232, terminal block for RS485/422	5.08mm pitch 5-pin terminal block	DB9 for RS232, terminal block for RS485/422
Isolation	-	3kVDC	-
Baud rate	600bps~230400bps	600bps~460800bps	600bps~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℃~ +85℃	-40℃~ +85℃	-40℃~ +85℃
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	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	-	-	-
Transmission delay	<10ms	<10ms	<10ms

Industrial Device Networking

Serial Device Server

Model	Cport3104-I	Cport3108-232	Cport3108-485
			
Serial Port			
Num. of serial ports	RS485/422*4	RS232*8	RS485*8
Connection method	5.08mm pitch 5-pin terminal block	5.08mm pitch 5-pin terminal block	Terminal block
Isolation	3kVDC	-	-
Baud rate	600bps~460800bps	600bps~460800bps	600bps~9216000bps
Ethernet Port			
10/100Base-T(X)	1	1	2
10/100/1000Base-T(X)	-	-	-
100Base-F(X)	-	-	-
1000M SFP	-	-	-
1000M combo port	-	-	-
Power Supply			
Power input	DC9~36V	DC9~36V	DC9~36V
Power consumption	<1.3W@DC12V	<1.1W@DC12V	AVG:0.8W; MAX:1.6W
Working Environment			
Operating temperature	-40℃~ +85℃	-40℃~ +85℃	-40℃~ +85℃
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	207*112*34.2	207*112*34.2	222*132*35
WiFi			
Quantity of antenna	-	-	-
Wireless standard	-	-	-
Frequency scope	-	-	-
Bandwidth	-	-	-
Software			
Network protocol	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, ICMP, IPV4, DHCP, DNS, SNMP, Telnet, MQTT, SSL/ TLS
IP obtaining method	Static IP/DHCP	Static IP/DHCP	Static IP/DHCP
DNS	Support	Support	Support
User configuration	WEB	WEB	WEB, AT command
Simple transparent transmission	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		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 8 TCP Client	A single serial port can connect up to 8 TCP Client	A single serial port can connect up to 8 TCP Client
Network buffer	Send: 16Kbyte; Receive: 16Kbyte	Send: 16Kbyte; Receive: 16Kbyte	48Kbyte
Serial buffer	Send: 1.5Kbyte; Receive: 1.5Kbyte	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
Data encryption	-	-	Support
SSL encryption	-	-	Support
Serial data forwarding	-	-	-
DDP/DC	-	-	-
Transmission delay	<10ms	<10ms	<10ms

Industrial Device Networking

Serial Device Server

Model	Cport3208-RJ-AD220	Cport3208-AD220	Cport3208-I-AD220
			
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 block
Isolation	-	-	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℃~ +85℃	-40℃~ +85℃	-40℃~ +85℃
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical			
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		
DNS	Support		
User configuration	WEB, AT command	WEB	
Simple transparent transmission	TCP Server/TCP Client/SSL Client/ UDP Server/UDP Client/ Httpd Client	UDP/UDP Multicast/TCP Client/TCP Server/RealCOM/Pair Connection	
Modbus	Modbus RTU to Modbus TCP	Modbus RTU /ASCII to Modbus TCP	
Serial port packaging mechanism	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	
Network buffer	10Kbyte	Send: 16Kbyte; Receive: 16Kbyte	
Serial buffer	10Kbyte	Send: 1.5Kbyte; Receive: 1.5Kbyte	
Heartbeat package	Support	Support TCP Keep alive mechanism, customize heartbeat package content	
Registration package	Support	Customize the content heartbeat 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/TLS1.1/TLS1.2)	
Serial data forwarding	-	Support	
DDP/DC	-	Support	
Transmission delay	<10ms	<10ms	<10ms

Industrial Device Networking

Serial Device Server

Model	Cport3216-AD220	Cport3216-I-AD220	Cport3232-2AD220
			
Serial Port			
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	-	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℃~ +85℃		
Relative huminity	5%~95% (non-condensing)		
Physical			
Installation	19 inn 1U rack mount installation		
Dimension (L)*(W)*(H) mm	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 Multicast/TCP Client/TCP Server/RealCOM/Pair Connection		
Modbus	Modbus RTU /ASCII to Modbus TCP		
Serial port packaging mechanism	Time and length can be set, the maximum packing length is 1460 bytes		
TCP server connection	A single serial port can connect up to 8 TCP Client		
Network buffer	Send: 16Kbyte; Receive: 16Kbyte		
Serial buffer	Send: 2Kbyte; Receive: 2Kbyte		
Heartbeat package	Support TCP Keep alive mechanism, customize heartbeat package content		
Registration package	Customize the content heartbeat package content		
RFC2217	Support		
HTTPD client	Support		
WebSocket client	Support		
MQTT	Support		
Data encryption	Support (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		

Industrial Device Networking

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			
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
Working Environment			
Operating temperature	-40℃~ +85℃	-40℃~ +85℃	-40℃~ +85℃
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/WebSocket Client/HTTPD Client		
Modbus	CAN to Modbus RTU	CAN to Modbus TCP	CAN to Modbus TCP，CAN to serial Modbus, serial Modbus RTU/ASCII to Modbus TCP
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 channel		
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
		
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 20/40/60/80/120km
Transmission wavelength	Multimode 1310nm; Singlemode 1310nm or 1550nm	Multimode 1310nm; Singlemode 1310nm or 1550nm
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℃~ +85℃	-40℃~ +85℃
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
MAC address	2k	2k

Industrial Device Networking

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			
Operating temperature	-40℃~ +85℃	-40℃~ +85℃	-40℃~ +85℃
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	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 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 Device Networking

Industrial Gateway

Model	Cgate3208-8D232	Cgate3208-8D485
		
CAN Port		
Num. of CAN ports	RS232*8	RS485*8
Connection method	6-pin 3.81mm industrial terminal block	6-pin 3.81mm industrial terminal block
Working mode	2kVAC/3kVAC	2kVAC/3kVAC
Isolation	300bps~460800bps	300bps~460800bps
Network Port		
Num. of ETH ports	100/100Base-T(X) RJ45 port*2	100/100Base-T(X) RJ45 port*2
Isolation	1.5kV	1.5kV
Power Supply		
Power input	DC12~48V	DC12~48V
Power consumption	<2.6W@DC24V	<2W@DC24V
Working Environment		
Operating temperature	-40℃~ +85℃	-40℃~ +85℃
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical		
Installation	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	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 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 Device Networking

Industrial Gateway

Model	Cgate300	Cgate300-G
		
Serial Port		
Num. of serial ports	RS232/485*1+RS485*1	
Connection method	Terminla block	
Isolation	-	
Baud rate	600bps~230400bps	
Network Port		
Num. of ETH ports	WAN/LAN*1 + LAN*1, 10/100Base-T(X)	
Isolation	Firewall Isolation	
IO Interface		
DI	DI*2, 0~2V detected as logic low, 9~36V detected as logic high	
DO	Relays*2, DC contacts rating @R(at resistive load)10A / 28V DC AC contacts rating @R(at resistive load)10A / 277V AC, NO AC contacts rating @R(at resistive load)5A /250V AC, N	
AI	2*analog input 4-20mA	
Cellular Network		
Frequency	LTE-FDD: B1/3/5/8 LTE-TDD: B34/38/39/40/41; GSM: 900/1800MHz	LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66; 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	SMA-K	
Power Supply		
Power input	DC9~36V	
Power consumption	Idle: <2.4W; Max: <3.8W	
Working Environment		
Operating temperature	-40℃～ +75℃	
Relative huminity	10%~95% (non-condensing)	
Physical		
Installation	DIN Rail	
Dimension (L)*(W)*(H) mm	79.6*58*110	
Software		
Network protocol	ICMP, IPv4, IP, ARP, TCP, UDP, DHCP, DNS, HTTP, MQTT, SNMP	
Protocol collection	Modbus RTU/TCP, various PLC protocols, DL/T645 protocol	
Protocol conversion	Modbus RTU/TCP, OPC UA, JSON, BAC net, 61850/104	
User configuration	WEB	
Edge gateway	Active collection, edge computing, group reporting, 2000+ points, custom Json reporting template	
Modbus	Modbus RTU/TCP protocol conversion	
Graphical programming	Nodered graphical secondary development	
Data encryption	SSL/TLS	
SSL encryption	Support	
OS	Linux	
VPN	PPTP, L2TP, *OpenVPN	
IP routing	Static routing	

Industrial Device Networking

Industrial Gateway

Model	Cgate100	Cgate100-ET	Cgate100-EAU	Cgate100-HM
				
Serial Port				
Num. of serial ports	RS232/485*1, RS485*1			
Connection method	Terminal block			
Isolation	-			
Baud rate	600bps~230400bps			
Network Port				
Num. of ETH ports	WAN, 10/100Base-T(X)*1			
Isolation	Firewall Isolation			
IO Interface				
DI	2*DI, 0~2V detected as logic low, 9~36V detected as logic high			
DO	Relays*2, DC contacts rating @R(at resistive load)10A / 28V DC AC contacts rating @R(at resistive load)10A / 277V AC, NO AC contacts rating @R(at resistive load)5A /250V AC, N			
AI	2*analog 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	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	1*(3 V/1.8 V) Micro-SIM(3FF)			
Antenna	SMA-K			
Power Supply				
Power input	DC9~36V			
Power consumption	Idle: <2.4W; Max: <4.8W			
Working Environment				
Operating temperature	-40℃～ +75℃			
Relative huminity	10%~95% (non-condensing)			
Physical				
Installation	DIN Rail			
Dimension (L)*(W)*(H) mm	79.6*58*110			
Software				
Network protocol	ICMP, IPv4, ARP, ICMP, TCP, UDP, DHCP, DNS, HTTPS, MQTT, SNMP, Telnet , NTP, SSLv3			
Protocol collection	Modbus RTU/TCP, DL/T645 protocol			
Protocol conversion	Modbus RTU/TCP, Json			
User configuration	WEB			
Edge gateway	Active collection, edge computing, group reporting, 300-1000 points, custom Json reporting template			
Modbus	Nodered graphical secondary development			
Graphical programming	-			
Data encryption	SSL/TLS			
SSL encryption	Support			
OS	RT-Thread			
VPN	-			
IP routing	-			

Industrial Device Networking

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 Performance 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
IO	DI*4: dry/wet contact --DI voltage range 0~36V (Max. 36V), High 5~36V, Low 0~2V DO*2: Relay --DO Max. 10A-277VAC/28VDC for NO, 5A-250VAC for NC AI*4: Analog quantity --Voltage 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
Power consumption	AVG:8.2W; MAX:9W	AVG:6W; MAX:24W
Working Environment		
Operating temperature	-10℃～ +70℃	-20℃～ +70℃
Relative huminity	10%~80% (non-condensing)	5%~95% (non-condensing)
Physical		
Installation	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	160*85*28	87.5*65*118

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	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
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 socket
Power protection	Terminal block	Terminal block
Working Environment		
Operating temperature	-20℃～ +70℃	-20℃～ +70℃
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

Industrial Device Networking

Remote I/O

Model	CJ-8DI8DO-MP	CJ-8DI8DO-MN	CJ-16DI16DO-MP	CJ-8DI8DO-RS
				
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	Number of channels: 8 DI digital inputs Connection method: 10-bit 3.5mm pitch terminal block 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)	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)	Number of channels: 8 DI digital inputs Connection method: 10-bit 5mm pitch terminal block Modbus function code: 02, 03, 04, 16 Rated voltage: DC12V (DC5~24V) Input type: wet contact PNP Isolation protection: 500VAC (optocoupler isolation)
DO	Number of channels: 8 DO digital outputs Connection method: 10-bit 3.5mm 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) Load type: resistive load, inductive load Isolation protection: 500VAC (optocoupler isolation) Interface protection: overvoltage, overcurrent, overload protection	Number of channels: 8 DO digital 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 Load type: resistive load, inductive load Isolation protection: 500VAC (optocoupler isolation) Interface protection: overvoltage, overcurrent, overload protection	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	Number of channels: 8 DO digital outputs Connection method: 20-bit 5mm pitch terminal block Modbus function code: 01, 03, 04, 05, 15 Output type: relay output (dry contact) Contact rated load: 10A@AC250V, 10A@DC30V Initial insulation resistance: 1000MΩ (min.) @500VDC Contact resistance: ≤ 100mΩ Electrical life: 100, 000 operations (rated load) Isolation protection: 500VAC
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℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+75℃	-40℃ ~+85℃
Relative huminity	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)	5%~95% (non-condensing)
Physical				
Installation	DIN Rail	DIN Rail	DIN Rail	DIN Rail
Dimension (L)*(W)*(H) mm	102*33*78	102*33*78	102*46*78	145*90*40

Industrial Device Networking

Remote I/O

Model	CJ-4DI4DO2AI	CJ-8DI8DO
		
Interfce		
Num. of DI	4	8
Num. of AI	-	0
Num. of DO	4	8
Num. of AO	-	-
Type of AI	2	-
Single range of AI	4~20mA	-
Voltage range of DI	DC9~32V	DC9~32V
Type of DO	Relay	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℃ ~ +70℃	-20℃ ~ +70℃
Relative huminity	5% (non-condensing)	5% (non-condensing)
Physical		
Installation	Wall Mount	Wall Mount
Dimension (L)*(W)*(H) mm	123*114*28	200*122*29

Industrial Device Networking

Remote I/O

Model	CX-DI08	CX-DO08
		
Interfce		
Num. of DI	8	0
Num. of AI	0	0
Num. of DO	0	8
Num. of AO	0	0
Type of AI	-	-
Single range of AI	-	-
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℃ ~ +75℃	-25℃ ~ +75℃
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

Remote I/O

Model	CX-AI04AO04	CX-DI04DO04	CX-AI04DO04
			
Interfce			
Num. of DI	0	4	0
Num. of AI	4	0	4
Num. of DO	0	4	4
Num. of AO	4	0	0
Type of AI	Current	-	Current
Single range of AI	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℃ ~ +75℃	-25℃ ~ +75℃	-25℃ ~ +75℃
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

Industrial Device Networking

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 1310/1550nm, Multimode 850/1310			
Transmission fiber	Single mode 9/125um, Multimode 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	≥ -8dBm			
Reception sensitivity	≤ -20dBm			
Technical Standard				
Standard	RS232/RS485/RS422			
Indicator Light				
Power	POW			
Main/Slave station	-			
Run	TX、RX、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℃ ~+85℃			
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 1310/1550nm, Multimode 850/1310	
Transmission fiber	Single mode 9/125um, Multimode 50/125um, 62.5/125um	
Transmission distance	Single mode20/40/60/100km, Multimode 2~5km	
Bit error rate of optical line	≤ 10^{-9}	
Transmitted optical power	≥ -10dBm	
Reception sensitivity	≤ -34dBm	
Technical Standard		
Standard	RS232/RS485/RS422	
Indicator Light		
Power	POW	
Main/Slave station	-	
Run	TXD、RXD、TX1-TX8、RX1-RX8、ERR	
Power		
Voltage	DC5~12V	
Consumption	<5W	
Protection	600W/ms lightning protection, 15KV electrostatic protection	
Working Environment		
Working temperature	-20℃ ~+75℃	
Ambient humidity	5%~95% (non-condensing)	
Physical Parameter		
IP protection	IP30	
Dimension(L)*(W)*(H)(mm)	225*96*30	136*90*30

Industrial Device Networking

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 1310/1550nm, Multimode 850/1310nm	
Transmission fiber	Single mode 9/125um, Multimode 50/125um, 62.5/125um	
Transmission distance	Single mode20/40/60/80km, Multimode 2~5km	
Bit error rate of optical line	≤ 10^{-9}	-
Transmitted optical power	≥ -8dBm	
Reception sensitivity	≤ -20dBm	
Technical Standard		
Standard	RS232/RS485/RS422	
Indicator Light		
Power	POW	
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℃ ~+85℃	-20℃ ~+85℃
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
			
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 mode 9/125um, Multimode 50/125um, 62.5/125um		
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℃ ~+75℃	-20℃ ~+75℃	-40℃ ~+85℃
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

Industrial Device Networking

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
				
Specification Parameter				
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
				
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℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃	-40℃ ~+85℃
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

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.

System Parameter

Product Function	CSViewPro
SNMP	SupportV1/V2C/V3/TRUNK
General management interface	Support version3.0
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

M T R 2 2 5 1 - 5 2

- Dual fiber module
- Wavelength: 1310nm multimode
- Baud rate: 0~1Mb/s
- Working voltage: 5V
- Connector: SC
- Communication distance: 5km
- TTL voltage level

The module naming notes

M × ×	×	×	×	×	×	×	×	×
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 SFPB: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

Recommended model	Port description			
	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 withа 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 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℃ ~70℃ ;
  - Withstand voltage strength: no breakdown and flashoverunder 15kVDC for 1min;
  - Bending radius ofoptical fiberin storage tray: >40mm,

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 ofthe optical cable;
  - Polyethylene (PE) sheath has good ultraviolet radiationresistance, small diameter, light weight and easy to lay;
  - Working temperature:-40 ℃ ~+70 ℃ ;
  - Suitable for pipeline, overhead and direct burial.

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.