

CGT341

Cat-1 4G Industrial Wireless Serial to Cellular Modem



- 1xRS232/485/422 port for transferring data over the mobile network (LTE Cat-1 solution)
- Allow the upper computer to configure/query device parameters through serial AT commands
- Support remote configuration/query of device parameters through COME-STAR Cloud platform
- Support multiple operating modes: Simple Transparent Transmission, Alibaba MQTT, Modbus, DDP/DC protocol
- Simple Transparent Transmission mode supports TCP/UDP Server and TCP/UDP Client
- Support heartbeat and registration packet functions, including ICCID, IMEI, user-defined data types in both hexadecimal and string formats
- Fanless design, case heat dissipation
- Independent hardware watchdog design to prevent system crashes

Product Description

CGT341 industrial wireless 4G serial to cellular modem provides a wireless data transmission channel with TCP/IP network protocol for industrial users. It can provide a fully transparent data channel for bidirectional data transmission from serial ports to the network, enabling wireless data communication between on-site RS232/485/422 bus devices and central control systems. This makes industrial communication smoother, more reliable, and faster. This modem offers a wide range of DC power inputs. In terms of core components, the product adopts an industrial-grade quality design, with many advantages such as wide network coverage, flexible and fast networking, and low operating costs. It can be used in industries such as power systems, industrial monitoring, traffic management, meteorology, water treatment, environmental monitoring, finance and securities, coal mining, petroleum, etc. It is used for remote on-site data collection, remote monitoring, on-site control, and is an indispensable industrial communication product for the development of IIoT.

Product Features

- Embedded 4G serial to cellular modem, compatible with RS232/485/422 bus
- Support configuration/query of device parameters by the host computer through serial AT commands
- Support configuration/query of device parameters through COME-STAR cloud platform
- Support TCP/UDP Server, TCP/UDP Client
- Support SSL encryption (only firmware versions V1.5.xx and above)
- Support ICMP detection, PPP layer heartbeat, TCP/IP layer heartbeat, and ping function (only firmware versions V2.0.xx and above)
- Support 2 socket connections
- TCP/IP layer network heartbeat
- Support heartbeat and registration packet functions, including ICCID, IMEI, user-defined data, etc.
- Support automatic reconnection in case of network disconnection
- Support automatic reconnection in case of network data reception timeout
- Support transparent transmission, CS cloud communication protocol, Alibaba MQTT, China Mobile OnetNet MQTT, Modbus, DDP/DC
- Support RS232/485/422 standard bus
- Support serial data reception and packaging based on length and time.
- Support SMS function in Chinese and English
- Support remote FTP upgrade

Technical Specifications

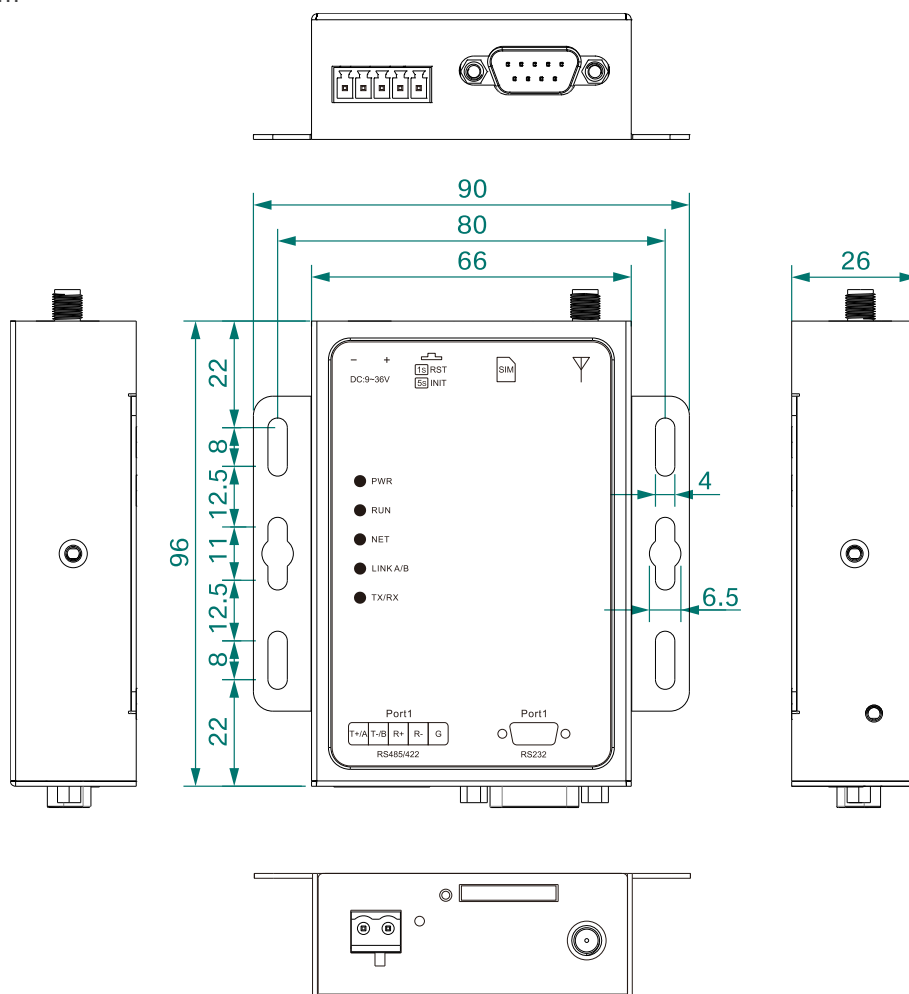
Software	
Network Protocol	IPv4
User Configuration	AT Commands
Operation Mode	Simple Transparent Transmission, Alibaba MQTT, China Mobile OneNET MQTT, Modbus, DDP/DC Protocol
Transparent Transmission	TCP/UDP Server, TCP/UDP Client
MQTT	Alibaba MQTT / China Mobile OneNet MQTT
SMS	Supports SMS in Chinese and English
Registration Package /Heartbeat Package	Types include ICCID, IMEI, user-defined data, etc. User-defined data types support hexadecimal and string formats
Serial Port Data Packaging	Time and length can be configured. Packaging length: 1~1000 bytes, packaging time: 10~60000ms (Different software versions may have variations in the packaging mechanism; you can inquire with our customer service for specific details.)
Network Cache	Send: 1 Kbyte; Receive: 1 Kbyte
Serial Port Cache	Send: 1 Kbyte; Receive: 1 Kbyte
Remote Configuration	Support
Supporting Software	serial to cellular modem configuration tool
4G Cellular Network	
Working Frequency	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41 GSM: 900/1800 MHz
Interface	
Antenna Connector	1 antenna connector, using SMA-K (external thread, internal hole)

Serial Port	<p>Serial Port: 1*RS232/485/422 port</p> <p>Connection Method: RS485/422 uses 5-pin 3.81mm pitch terminal blocks, RS232 uses DB9M</p> <p>Baud Rate: 600bps~460800bps</p> <p>Data Bits: 7 bits, 8 bits</p> <p>Stop Bits: 1 bit, 2 bits</p> <p>Parity: None, Odd, Even</p>
SIM Card Slot	1*SIM card slot
Button	One-button restart or factory reset button
Status LED	Power indicator, Status indicator, NET indicator, LINK A/B indicators, Serial port transmit and receive data indicators
Power Supply	
Input Voltage	DC 9~36V, reverse polarity protection
Working Current	Average 65mA@DC 12V, maximum 220mA@DC 12V
Connection	2*5.08mm pitch terminal blocks.
Physical Characteristics	
Dimensions	96×90×26 mm (including mounting brackets)
Installations	Wall mount
IP Code	IP40
Working Environment	
Operating Temp	-40℃~+85℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	

EMC	<p>IEC 61000-4-2 (ESD): Contact Discharge $\pm 2\text{kV}$, Air Discharge $\pm 8\text{kV}$</p> <p>IEC 61000-4-5 (Surge): Power Lines: Common Mode $\pm 2\text{kV}$, Differential Mode $\pm 2\text{kV}$; RS485/422: Common Mode $\pm 4\text{kV}$, Differential Mode $\pm 2\text{kV}$</p> <p>IEC 61000-4-4 (EFT): Power Lines: $\pm 1\text{kV}$; Communication Ports: $\pm 2\text{kV}$</p>
Certifications	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	RS232/485/422	4G Antenna	Input Voltage
CGT341	1	1	DC9~36V



Contact Us

COME-STAR COMMUNICATION(WUHAN) CO., LTD.

Address: Puneng Industrial Park, Fenghuang Garden 1st Road, East Lake High-Tech Development Zone, Wuhan, China.

Tel: +86-027-59257958

Mail: info@come-star.com

Official site: www.come-star.com

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