CGT341

1×RS232/485/422 to CAT-1 4G Industrial Serial-to-Cellular Wireless Modem



- 1 × RS232/485/422 serial port to 4G LTE Cat-1 network
- Multiple operating modes: Simple Transparent Transmission, Alibaba MQTT, OneNET MQTT, Modbus, and DDP/DC
- Support heartbeat and registration packet functions, including ICCID, IMEI, and user-defined data types in both hexadecimal and string formats
- Automatically reconnects after network interruptions or data-receive timeouts
- Built with an independent external hardware watchdog to ensure system stability and prevent crashes
- DC9~36V wide input voltage, IP40-rated housing protection, wall-mount design
- -40 ℃~+85 ℃ working temperature range

Product Description

CGT341 from Come-Star is an industrial serial-to-cellular modem designed to transmit data from field devices over 4G networks. It provides a wireless TCP/IP communication channel for transparent serial data transmission, enabling seamless bidirectional data exchange between RS232/485/422 equipment and central control systems.

CGT341 supports a wide DC power input range of 9~36 V and features a wall-mount design. Built with industrial-grade components, it offers -40℃ to +85℃ wide-temperature operation, IP40 protection, and strong resistance to electromagnetic interference, surges, and lightning. With wide network coverage, flexible deployment, and low operating costs, the device is ideal for applications in power systems, industrial automation, traffic management, meteorology, water treatment, environmental monitoring, finance, mining, oil and gas, and more.

It enables reliable remote data acquisition, monitoring, and field control, making it an essential industrial communication component for the development of the Industrial Internet of Things.

Product Features

- High-performance serial 4G modem for industrial communication, compatible with RS232/485/422 to meet diverse field requirements.
- Support RS232/485/422 standard bus.
- Support configuration and parameter query via serial AT commands from the host system.
- Support TCP/UDP Server and TCP/UDP Client.
- Support SSL encryption (firmware V1.5.xx only).
- Support ICMP detection, PPP-layer heartbeat, TCP/IP-layer heartbeat, and ping function (firmware V2.0.xx and above).
- Support 2 socket connections.
- Support TCP/IP-layer network heartbeat.
- Support heartbeat and registration packets, including ICCID, IMEI, and user-defined data.
- Support automatic reconnection after network disconnection.
- Support automatic reconnection when network data reception timeout occurs.
- Support transparent transmission, Alibaba MQTT, OneNET MQTT, Modbus, and DDP/DC.
- Support serial data packaging by length and time.
- Support Chinese and English SMS.
- Support remote FTP upgrade.

Technical Specifications

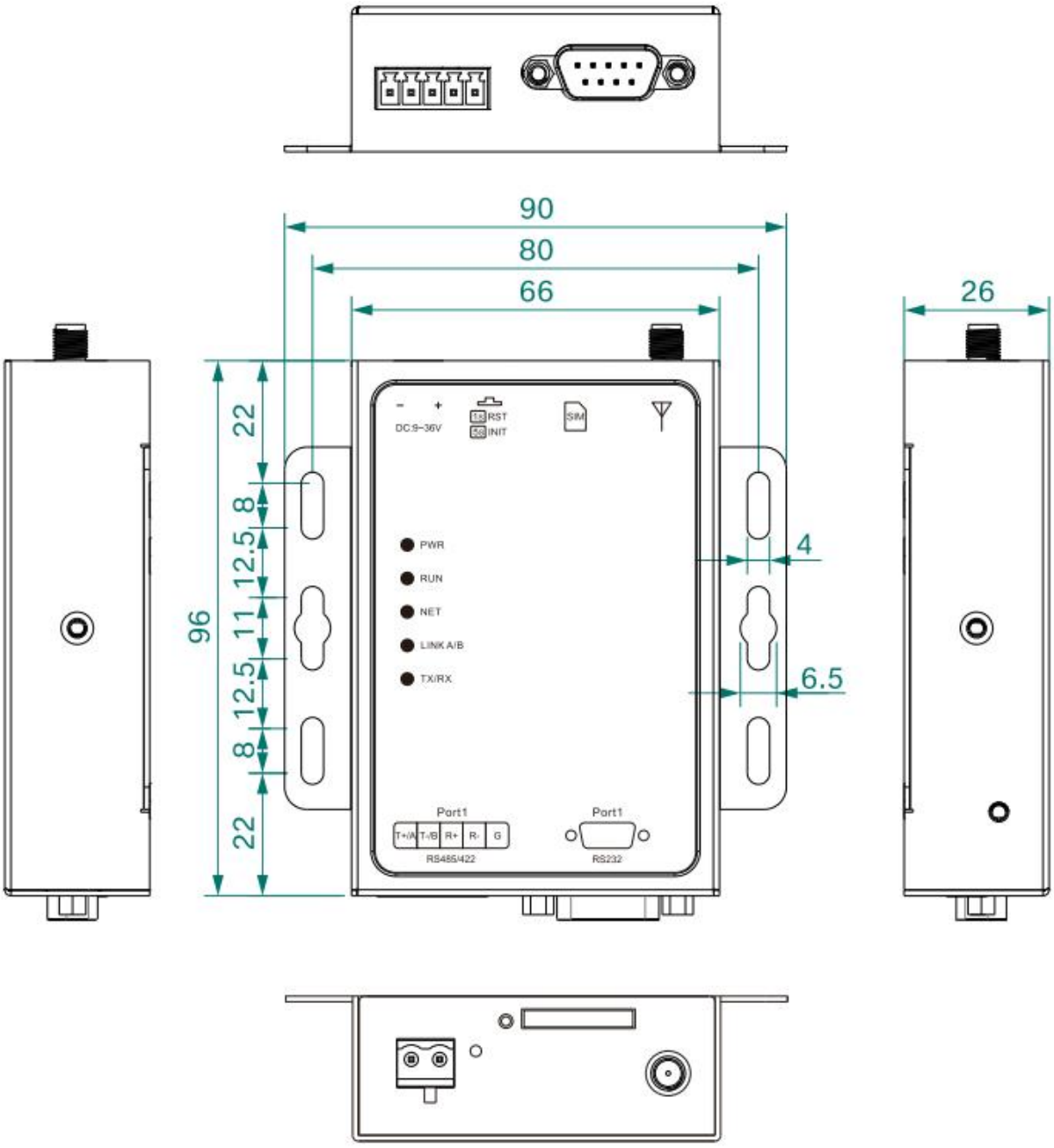
Software	
Network Protocol	IPv4
User Configuration	AT Commands
Operation Mode	Simple Transparent Transmission, Alibaba MQTT, OneNET MQTT, Modbus, DDP/DC Protocol
Transparent Transmission	TCP/UDP Server, TCP/UDP Client
MQTT	Alibaba MQTT / China Mobile OneNet MQTT
SMS	Supports SMS in Chinese and English
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 Buffer	Send: 1 Kbyte; Receive: 1 Kbyte
Serial Port Buffer	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 × SMA-F connector (outer-thread, inner-socket)
Serial Port	Serial Signal: 1×RS232/485/422 port Connection Method: RS485/422: 5-pin 3.81mm pitch terminal blocks RS232: DB9M Baud Rate: 600~460800bps Data Bits: 7 bits, 8 bits Stop Bits: 1 bit, 2 bits Parity: None, Odd, Even
SIM Card Slot	1 × standard SIM card slot
Button	One-click 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-pin 5.08 mm pitch terminal block
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	IEC 61000-4-2 (ESD): Contact Discharge ±2kV, Air Discharge ±8kV IEC 61000-4-5 (Surge): Power Port: Common Mode ±2kV, Differential Mode ±2kV; RS485/422: Common Mode ±4kV, Differential Mode ±2kV IEC 61000-4-4 (EFT): Power Port: ±1kV; Communication Ports: ±2kV
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

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