CGT371

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



- 1 × RS232/485/422 serial port to 4G wireless signal
- Support transparent transmission, Alibaba MQTT, China Mobile OneNET MQTT, Modbus, and DDP/DC
- Support heartbeat and registration packets including ICCID, IMEI, and user-defined data; user-defined data can be in hexadecimal or string format
- Support automatic network reconnection after disconnection and timeout-triggered reconnection when data reception fails
- Built with an independent external hardware watchdog to ensure system stability and prevent crashes
- DC 9~36V wide input voltage, IP40-rated housing protection, wall-mount design
- -40 ℃~+85 ℃ working temperature range

Product Description

CGT371, produced by COME-STAR Communication, is a serial-to-cellular modem designed to connect industrial serial devices to 4G wireless networks. It provides an IP-based wireless data transmission channel and supports fully transparent, bidirectional data communication between RS232/485/422 field devices and the central control system.

CGT371 supports a wide DC input range of 5~36 V and offers wall-mount installation. Built with industrial-grade components, the modem features IP40 protection, strong electromagnetic immunity, and reliable operation in harsh environments from -40℃ to +85℃. With wide network coverage, flexible deployment, and low operating costs, it is suitable for applications such as power systems, industrial monitoring, traffic management, meteorology, water treatment, environmental monitoring, finance, mining, and petrochemical industries. It enables remote data acquisition, remote monitoring, and on-site control, making it an essential communication device for industrial IoT development.

Product Features

- Support 1 × RS232/485/422 serial port to 4G network for industrial communications
- Support RS232/485/422 standard buses
- Support configuration and query of device parameters via serial AT commands from a host computer
- Support TCP/UDP Server and TCP/UDP Client modes
- Support SSL encryption (firmware V1.5.xx and above)
- Support ICMP detection, PPP heartbeat, TCP/IP heartbeat, and ping (firmware V2.0.xx and above)
- Support 2 simultaneous socket connections
- Support TCP/IP layer network heartbeat
- Support heartbeat and registration packets with ICCID, IMEI, or user-defined data
- Support automatic network reconnection after disconnection
- Support timeout-triggered reconnection on data reception failure
- Support transparent transmission, Ali MQTT, China Mobile OneNet MQTT, Modbus, DDP/DC
- Support serial data packaging based on length or time
- Support SMS in Chinese and English
- Support FTP-based remote firmware upgrade

Technical Specifications

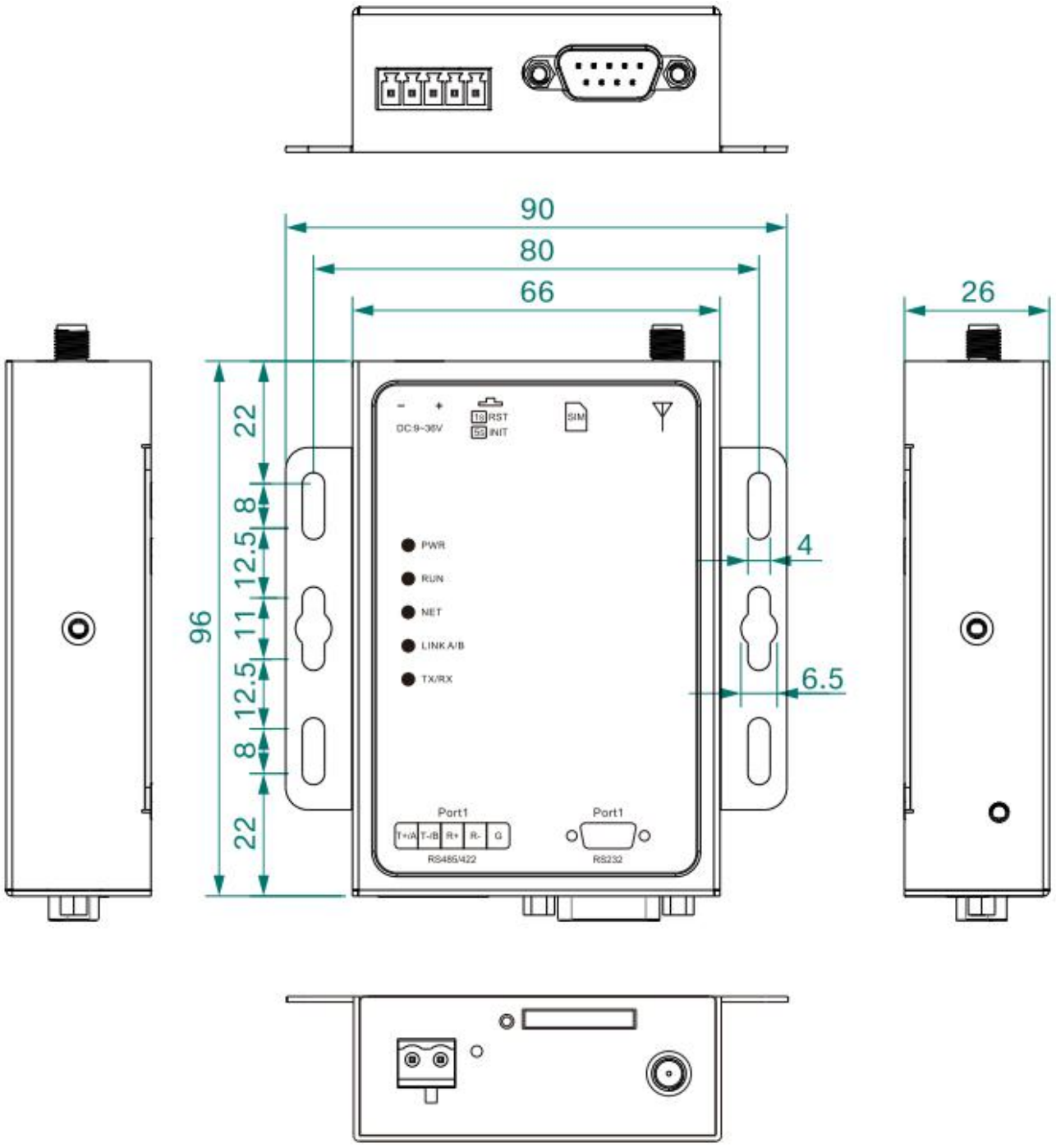
Software	
Network Protocol	IPv4
User Configuration	AT Commands
Operation Mode	Transparent transmission, Ali MQTT, China Mobile OneNET MQTT, Modbus, DDP/DC protocols
Transparent Transmission	TCP/UDP Server, TCP/UDP Client
MQTT	Alibaba MQTT / China Mobile OneNet MQTT
SMS	Support SMS in Chinese and English
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	

Working Frequency	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B8 TD-SCDMA: B34/B39 CDMA: BC0 GSM: 900/1800MHz
Interface	
Antenna	1 × SMA-F connector (outer-thread, inner-socket)
Serial Port	Serial Signal: 1×RS232/485/422 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: 58mA @DC12V, maximum: 186mA @DC12V
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 ±8kV, Air Discharge ±15kV IEC 61000-4-5 (Surge): Power Port: Common Mode ±4kV, Differential Mode ±2kV; RS485/422: Common Mode ±4kV, Differential Mode ±2kV IEC 61000-4-4 (EFT): Power Port: ±4kV; Communication Ports: ±2kV
Certifications	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	RS232/485/422	4G Antenna	Input Voltage
CGT371	1	1	DC 9~36V

Contact Us

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