

MGT551-E

Industrial 4G DTU

Product description

MGT551-E 4G DTU is a product based on 4G wireless data transmission terminal equipment for industrial users with TCP/IP network protocol of wireless data transmission channel. Providing transparent data channel to realize the bidirectional serial port to the network data transparent transmission, realizing the RS485 / RS232 / RS422 bus equipment with wireless data communication between the center control system.



Features:

- Embedded 4G DTU in the field of high-performance industrial communication, compatible with the RS485/RS232/RS422 bus in the industrial field, to meet the diverse needs of users
- Support the host computer to configure/query device parameters through serial AT commands
- Support TCP Client and UDP Client
- Support 2-way Socket connection
- Support RS485, RS232, RS422 standard Bus
- Support network disconnect automatic reconnect function
- Support transparent transmission, Cloud Communication protocol, MQTT
- Ethernet interfaces up to 4KV lightning protection, RS-232/RS-485/RS-422 interfaces up to 2KV surge protection

Product specifications

Hardware parameters

Power supply	DC5-36V
Working current	56mA@12V,
Power protection	Protection against reverse connection
Network standard	LTE-FDD: B1/B3/B7/B8/B20/B28A LTE-TDD: B38/B40/B41 WCDMA: B1/B8 GSM/EDGE: B3/B8
EMI	FCC Part 15,CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD):±8kV(contact),±15kV(air) EN61000-4-3 (RS):10V/m (80~1000MHz)
	EN61000-4-4 (EFT) Power Port: ±2kV, Data Port: ±2kV
	EN61000-4-5 (Surge) Power Port: ±2kV/DM,±2kV/CM Data Port: ±2kV
	EN61000-4-6 (Radio frequency conduction) , 10V (150kHz~80MHz)
	EN61000-4-8(Power frequency magnetic field), 100A/m continuous ; 1000A/m ,1s to 3s
Impact	IEC 60068-2-27
Falling	IEC60068-2-32
Shock	IEC60068-2-6
size	96mm*90mm*26mm
Working environment	
Operating temperature	-40°C~85°C
Storage temperature	-40°C~85°C
Ambient humidity	5%~95%(non-condensing)

Software parameters

Network protocol	IPV4
User configuration	AT command
Simple transparent transmission method	TCP Client/UDP Client/SSL
MQTT	Ali MQTT
SMS	Support Chinese and English text messages
Operating mode	Simple transparent transmission, Ali MQTT, China Mobile OneNET MQTT protocol, Modbus, MAIWE cloud communication protocol
Modbus	Modbus RTU/TCP
A serial port to support	Either RS232/RS485/RS422
Serial port Baud rate	600~460800 (bps)
Serial port packaging mechanism	Time and length can be set; Default 500ms packaging time, packaging length 1000Bytes
Web caching	Send: 1Kbyte; Receive: 1Kbyte;
A serial port cache	Send: 1Kbyte; Receive: 1Kbyte;
Flow control	No
Heartbeat packet function	Support
Register package feature	Support
Complete set of software	DTU configuration tool

Warranty

Warranty period	5 Years
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Ordering information

MGT571	1 RS232/485/422 to 4G wireless wall-mounted industrial data transmission terminal, DC9~36V power supply. The standard configuration includes a power adapter, rod antenna, serial port debugging cable, and metal shell.
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