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INS021-G

RS485 to LTE Cat 4 Modem



The INS021-G is a DIN-Rail type LTE Cat 4 Modem, with low latency, high reliability and high real-time characteristics. The product has a fast transmission rate, with an uplink peak rate of 50Mbps and a downlink peak rate of 150Mbps.

The product has rich functions, is easy to use and can be customized.

FEATURES

- DC 9-36V wide input voltage range power supply
- 4G LTE, fallback to 3G/2G
- Two-way Transparent transmission
- TCP/UDP, HTTP, SMS, Modbus, MQTT

- SMS, NET, Serial AT command configuration
- FTP Upgrade and FOTA self upgrade
- Supports the MQTT protocol

SPECIFICATIONS

LTE

LTE Category LTE Cat.4

FREQUENCY BANDS

LTE FDD B1/B2/B3/B4/B5/B7/B8/B12/
 B13/B18/B19/B20/B25/B26/B28

LTE TDD B38/B39/B40/B41

WCDMA B1/B2/B4/B5/B6/B8/B19

GSM B2/B3/B5/B8

TRANSMISSION SPEED

LTE-FDD 150Mbps(DL)/50Mbps(UL)

LTE-TDD 130Mbps(DL)/30Mbps(UL)

DC-HSDPA 42Mbps (DL)

HSUPA 5.76Mbps (UL)

WCDMA 384Kbps(DL)/ 384Kbps(UL)

GSM (EDGE) 296Kbps (DL)/ 236.8Kbps (UL)

GSM (GPRS) 107Kbps (DL)/ 85.6Kbps (UL)

SERIAL PARAMETERS

Interface RS485 (Terminal)*1

Data Bits 8

Stop Bits 1,2

Parity Bits NONE, ODD, EVEN

Baud Rate 2400 230400

PHYSICAL INTERFACES

SIM/USIM card 1.8V/3V (medium card)

Antenna SMA Female

USB USB 2.0

Indicators POWER, WORK, NET, LINK, RSSI

Reload Button

Reset /

HARDWARE CHARACTERISTICS

Input Voltage 9V 36V

Connector Terminal

Housing material ABS Plastic

Dimensions (mm) 44.5×31.8×13.94 (L*W*H)

Operating temperature -30 +75

Storage Temperature -40 +85

Operating humidity 5% 95%

Storage humidity 5% 95%

SOFTWARE

Protocol TCP/UDP/DNS/HTTP/FTP

Serial to network 2 sockets, default A

SMS PDU/TEXT

Configuration Serial, Net, SMS AT commands

Cache 5 packets

PACKAGING MECHANISM

Packaging time (ms) 100~60000, default 100

Packaging length (byte) 100 1000, default 1000

OTHERS

Tool USB-Cat 4 Configuration Utility

Certifications CE, ROHS