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Specification sheet for Cellular IoT Gateway with upto 7 * IO's, GW IoT GXM Series



GW IoT Cellular gateway with IO's is used for remote monitoring of Analog / Digital inputs via 2G/4G network. It can also act as a Modbus master for multiple slave field devices and provides reliable data connection to a web based application server. The web server application can be hosted on public network or can be installed at central monitoring station having static IP. It is designed to be used in industrial panels and operates on 12V DC power supply.

General Specifications

- Supports upto 2 Analog Inputs (4-20mA/0-10VDC), upto 4 Digital Inputs (Potential Free) and upto 1 Digital Output.
- MODBUS RTU Master interface for field devices
- User can set Modbus Slave Device configurations e.g. Device ID, Holding Register addresses, Length etc. via FTP
- RTU port RS485 to interface to multiple Modbus slave devices
- Connects by itself to external web server
- USB console port for local configuration
- RTC support (battery backed) enables Time Stamping
- 8 MB memory for data storage if Network drops
- Watch Dog timer
- Upload Data Time Interval is User Programmable
- Configuration using SMS for specific parameters
- Robust design with DIN rail mounting and wall mounting enclosure
- Industrial Screw type Power Terminal block for 12V DC operation
- IoT protocols supported: HTTP GET, HTTP POST, MQTT, FTP

Cellular Specifications

- High Performance Quectel Module
- Band:
 - GW IoT G1M241: GSM 850/900/1800/1900MHz
 - GW IoT G8M241:(For India only)
 - LTE FDD B1/B3/B5/B8
 - LTE TDD B38/B39/B40/B41
 - WCDMA: B1/B8
 - TD-SCDMA: B34/B39
 - CDMA:BC0
 - GSM 900/1800MHz
- Bandwidth:
 - GW IoT G1M241 Max. 85.6kbps (Uplink & Downlink)
 - GW IoT G8M241
 - LTE FDD - Max. 150Mbps (DL) & Max. 50Mbps (UL)
 - LTE TDD- Max 130Mbps (DL) & Max 35 Mbps (UL)
 - DC-HSDPA – Max 42 Mbps (DL)
 - HSUPA- Max 5.76 Mbps(DL)
 - WCDMA-Max 384Kbps(DL)/Max 384 Kbps(DL)
 - TD-SCDMA: Max 4.2 Mbps(DL)/Max 2.2 Mbps(UL)
 - EVDO: Max 3.1 Mbps(DL)/Max 1.8 Mbps(UL)

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1x Advanced: Max 307.2 Kbps (DL/UL)
EDGE: Max 296 Kbps(DL)/Max 236.8 Kbps (UL)
GPRS: Max 107Kbps(DL)/Max 85.6 Kbps(UL)

- Output power : < 35 dBm
- Sensitivity : < -110 dBm
- Control via AT commands (GSM 07.07 and 07.05)
- GPRS multi-slot, Class 12/10/8
- CSD up to 14.4 kbps for GSM
- USSD, TCP/UDP protocol, PPP Stack, FTP/HTTP

RTU interface

- Serial port : RS-485, 2 Wire, Screw type connector
- Data bits : 7,8
- Stop bits : 1,2
- Parity : None, Even, Odd
- Baud rate : 2400 to 115200 bps

Console interface

- USB port : Mini USB connector
- Speed : USB 2.0 Hi-Speed (480Mbits/Second) and Full speed 12Mbits/Second compatible

Power Supply

- 12V DC , Screw type 2 pin connector with 3.81mm pitch
- Power consumption
0.9 W @12V DC During no data communication
1.92 W @12V DC During data communication

Note : Adapter not in scope of supply. Input 230V AC, Output 12V DC,2A

Accessories:

- Antenna : SMA Connector, Antennae cable length 3m
- SIM & Holder : Push Type
- RTU Interface : Screw type connector
- Console interface : Mini USB cable

Environmental Conditions

- Operating Temperature : -25° to 80°C
- Relative Humidity : 90 % Rh non condensing

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Mechanical

- Enclosure : Metallic Enclosure with DIN rail and wall mounting
- Dimension : 36 x 105 x 127 mm for enclosure (Excluding antenna)
- LED Indication : 1 Power ON, 1 Rx, 1 Tx, 3 LED's for network status

Ordering Information : GW IoT GXM XYZ

GW IoT : Cellular IoT Gateway with IO's
GX : G1 for 2G
 : G8 for 4G
M : Modbus RTU Input port
X : 1 or 2 for 1/2 Analog Inputs (4-20mA/0-10VDC).
 : 0 for None
Y : 1 or 2 or 3 or 4 for 1/2/3/4 Digital Inputs (Potential Free)
 : 0 for None
Z : 1 for 1 Digital Output.
 : 0 for None

Possible Model Combinations for XYZ are : 200, 040, 240 & 241

Note: 4G model is for Indian frequency bands only. For usage of 4G model outside India, please contact San Telequip office.