

## Specification sheet for GW IoT GXM, Cellular IoT Gateway



GW IoT is a cellular gateway used for remote monitoring of multiple field equipments via 2G/4G network. It acts as a Modbus master to multiple Modbus slave field devices at a single location 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 18V-36V DC power supply.

### General Specifications

- MODBUS RTU Master interface for field devices
- Connects by itself to external web server
- Self-embedded with integral PPP & TCP/IP and HTTP protocol stack
- USB console port for local configuration
- RTU port RS232/RS485 factory settable to interface to multiple Modbus slave devices
- Connect upto 31 Modbus devices, 500 Modbus registers support
- Modbus slave devices configuration using CSV file on server, file read using HTTP GET protocol
- Supports maximum 400 Modbus queries in CSV file
- Supports Modbus function codes 01, 02, 03 and 04
- Supports Modbus data types 16 bit Integer, Float, Swapped Float, 32 bit Integer and 32 bit Swapped Integer
- RTC support (battery backed) enables Time Stamping
- 8 MB memory for data storage if Network drops, Stores upto 2000 records.
- 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 18V ~ 36V DC operation.
- IoT protocols supported: HTTP GET, HTTP POST, MQTT, FTP

### Cellular Specifications

- High Performance Quectel Module
- Band:
  - GW IoT G1M: GSM 850/900/1800/1900MHz
  - GW IoT G8M: (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 G1M Max. 85.6kbps (Uplink & Downlink)

San Telequip (P) Ltd.,  
504 & 505 Deron Heights, Baner Road  
Pune 411045, India



Phone : +91-20-27293455, 9764027070, 8390069393    Connecting. Converting. Leading !  
email : [info@santelequip.com](mailto:info@santelequip.com)

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GW IoT G8M    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)  
                  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         : RS485 or RS232, 3 pin Screw type connector, Default RS485
- 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

- 24V DC (Range: 18 to 36V DC)  
   Screw type 3 pin connector with 3.81mm pitch
- Power consumption  
   1.68 W @24V DC During no data communication  
   3.12 W @24V DC During data transmission mode

Note: Adapter not in scope of supply. Input 230V AC, Output 24V DC, 1A

#### Accessories

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

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#### **Environmental Conditions**

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

#### **Mechanical**

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

#### **Ordering Information GW IoT GXM-YYY**

GW IoT GXM : Cellular IoT Gateway

X : 1 for 2G Gateway  
: 8 for 4G Gateway

Y : 232 for RS232 interface  
: 485 for RS485 interface

GW IoT G1M : 2G Cellular IoT Gateway

GW IoT G8M : 4G Cellular IoT Gateway

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