

Specification sheet for GW IoT G1ME 120



GW IoT G1M120 is a Cellular gateway with IO's used for remote monitoring of Analog / Digital inputs via 2G 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 24V DC power supply.

General Specifications

- Supports upto 1 Analog Input (4-20mA) and 2 Digital Inputs (Potential Free)
- MODBUS RTU Master interface for field devices
- RTU port RS485 to interface to multiple Modbus slave devices
- Connect upto 5 Modbus devices, 100 Modbus registers support
- Modbus slave devices configuration using CSV file on server, file read using HTTP GET protocol
- Supports 100 Modbus queries configuration
- 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
- Connects by itself to external Web server
- Watchdog timer
- Upload Data Time Interval is User Programmable
- Robust design with DIN rail mounting
- Industrial Screw type Power Terminal block for 24V DC operation
- Firmware over the air support
- IoT protocols supported: HTTP GET, MQTT

Cellular Specifications

High Performance Quectel Module

Quadband 850/900/1800/1900MHz

GPRS multi-slot, Class 12, 1 ~12 Configurable

GPRS Mobile Station Class B

Compliant to GSM Phase 2/2+: Class 4 (2W @850/900 MHz)

: Class 1 (1W @1800/1900 MHz)

GPRS Class 12

: Max 85.6Kbps (Uplink) Max 85.6Kbps (Downlink)

Coding schemes

: CS 1, 2, 3, 4

RF Receiving Sensitivity

: < -109 dBm

Control via AT commands (GSM 07.07 and 07.05)

RTU interface

Serial port : RS-485, 2 Wire, Screw type connector

Data bits : 5,6,7,8

Stop bits : 1,2

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Parity : None, Even, Odd
Baud rate : 2400 to 115200 bps

Analog Input

- Resolution : 10 bits
- Number of Inputs : 1
- Current or voltage input factory settable
- Current : 4- 20 mA
- Voltage : 0-10V/0-5V
- Input impedance : Current 100 ohm
: Voltage 10 T ohms

Digital input

- Number of inputs : 2
- External Dry contact (Potential free)
Logic level 0 : Close to GND
Logic level 1 : Open

Power supply

- 24VDC, (Range: 9 to 36VDC)
Screw type 3 pin connector
- Power consumption
0.6 W @24V DC During no data communication
0.8 W @24 DC During data communication

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
Inputs interface : Screw type connector

Environmental conditions:

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

Mechanical:

Enclosure : Enclosure with DIN rail and wall mounting
LED Indication : 1 Power ON, 1 Rx, 1 Tx, 1 LED for Network status

Ordering Code : GW IoT G1ME 120

GW IoT G1ME : Base Model code for 2G Cellular IoT Gateway
1 : Analog Input
2 : Digital Input
0 : No DO's