

Spec sheet for IoT Gateway with WAN, WiFi and Internal Webserver. GW IoT EM



GW IoT EM is a gateway used for remote monitoring of multiple field equipment via Ethernet WAN and WiFi network. It acts as a Modbus master to multiple Modbus slave field devices at a single location on serial 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 9V-30V DC power supply.

General Specifications

- Connects by itself to external Web Server
- IoT protocols supported: HTTP GET, HTTP POST, MQTT
- Self-embedded with integral TCP/IP and HTTP protocol stack
- MODBUS RTU/MODBUS TCP 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 RS232/RS485 factory settable to interface to multiple Modbus slave devices
- USB console port for configuration/debugging
- RTC support (battery backed) enables Time Stamping
- 8 MB memory for data storage if internet connection drops.
- Stores upto 2000 records.
- Watch Dog timer
- Upload Data Time Interval is User Programmable
- Robust design with DIN rail mounting and wall mounting enclosure
- Industrial Screw type Power Terminal block for 18V ~ 36V DC operation.
- 32GB SD card storage (Optional)

Ethernet Interface

- 1 * RJ45 Connector.
- 10 / 100 Mbps (Auto Detect), Auto MDI/MDI-X
- Setup : HTTP Browser Setup (IE)
- Security : Login Password
- Protection : Built-in 1.5KV Magnetic Isolation

WiFi Interface

- Standard : IEEE802.11b/g/n
- Bandwidth : IEEE802.11 b/g : 54 Mbps (Max)
: IEEE802.11n : 150 Mbps (Max)
- Security : WEP,WPA,WPA2 etc
- Tx Power : 20dBm(11n), 24dBm(11g), 26dBm(11b)
- RX sensitivity : <-72dBm@54Mbps

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RTU interface

- Serial port : RS485, 2 Wire or RS232, Screw type connector.
- Data bits : 5,6,7,8
- Stop bits : 1,2
- Parity : None, Even, Odd
- Baud rate : 2400 to 115200 bps
- Interface : Screw type connector

Power Supply

- Input Supply : 24V DC. Range 9V to 30V DC
- Screw type connector
- External 230 AC adapter, 24V DC, 1A

Indications

- LED's : Power ON, Rx, Tx

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)

Ordering Information

GW IoT EM : IoT Gateway using Ethernet WAN and WiFi interface and with Internal Web Server