



## GM-M2CGateway

### Key Features

- 4G router with 5 x Ethernet ports and a range of advanced functions for IoT Applications.
- Modbus TCP/485 communications built in.
- Connects directly to the Go Monitor GOio cloud for data collection, visualisation, API forwarding.
- Remotely managed by the Go Monitor cloud.
- VPN secure communications as standard.
- Encrypted protocols (TLS 1.2) as standard.
- 4G/3G/2G connectivity.
- WiFi & Ethernet connectivity.
- Roaming EU Sim card (unsteered), Dual-sim on board.
- External antenna sockets.
- DIN rail mount.



## Cellular Interface

Number of antennas	2
Connector	SMA-K
SIM	2 Mini SIM (2 FF)

## Ethernet Interface

Number of ports	5 x 10/100 Mbps, 5LAN by default, can be configured as 1WAN + 4LAN
WAN port	Support 802.3af & 802.3at PD feature on ETH0 (optional)

Magnet isolation protection	1.5 KV
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## Wi-Fi Interface

Number of antennas	2
Connector	RP-SMA-K
Standards	802.11b/g/n, supports AP and Client modes
Frequency bands	2.4 GHz
Security	WEP, WPA, WPA2
Encryption	64/128 AES, TKIP
Data speed	2 x 2 MIMO, 300 Mbps

## DI/DO

Type	1 x DI + 1 x DO, wet contact
Isolation	3 KV
Socket form	2 x 3-pin 3.5 mm female socket
Level	3 ~ 30 VDC = HIGH, 0 ~ 1VDC = LOW
Absolute maximum VDC	30 VDC (DI/DO)
Absolute maximum ADC	10 mA (DI/DO)

## Analog Input

Type	1 x AI (can be configured as voltage type or current type)
Voltage input range	0 ~ 24 VDC
Current input range	4 ~ 20 mA (current-type input requires external resistance, and finally measured by voltage)
Socket form	2 x 3-pin 3.5 mm female socket
Signal definition	AI, AGND

## Serial Port

Type	1 x RS232 + 1 x RS485
Socket form	2 x 4-pin 3.5 mm female socket
Signal definitions	RS232: RXD, TXD, SGND, RTS, CTS RS485: Data+ (A), Data- (B), GND

## Others

Reset button	1 x RST
RTC	External RTC clock, Backup energy storage capacitor can be maintained for 2 days
LED indicators	1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1 x Wi-Fi
Built-in	Watchdog, Timer

## Software

Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPS, DNS, ARP, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc.
VPN tunnel	IPsec, OpenVPN, GRE
Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control
Remote management	Web, CLI, SMS

## App Center

Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal, WLAN Multi AP, SNMP, Language
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## SDK

Supported programming language	C, C++
Flash available for SDK	4 MB
RAM available for SDK	64 MB

## Power Supply and Consumption

Connector	2-pin 3.5 mm socket with lock
Input voltage	9 ~ 36 VDC
Power consumption	Idle: 100 mA@12 V Data link:1.0 A (peak) @12 V

## Physical Characteristics

Ingress protection	IP30
Housing & Weight	Plastic, 250 g
Dimensions	105 x 90 x 46 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting
Operating temperature	-25 ~ +70 °C
Storage temperature	-40 ~ +85 °C
Relative humidity	5 ~ 95% RH

## Regulatory and Type Approvals

Environmental	RoHS2.0, WEEE
EMI	EN 55032: 2012/AC: 2013 (CE & RE) Class B
EMS	IEC 61000-4-2 (ESD) Contact Level 2 IEC 61000-4-3 (RS) Level 2 IEC 61000-4-4 (EFT) Level 2 IEC 61000-4-5 (Surge) Level 2 IEC 61000-4-6 (CS) Level 2 IEC 61000-4-11 (DIP) Level 2

Compatible with the  
Go Monitor GOio  
cloud platform:

