

M1200 robustos

Smart Industrial IoT Gateway
2 SIM + 2 DI + 1 DO + 1 RS-232 + 1 RS-485 + 1 Mini USB



INTRODUCTION

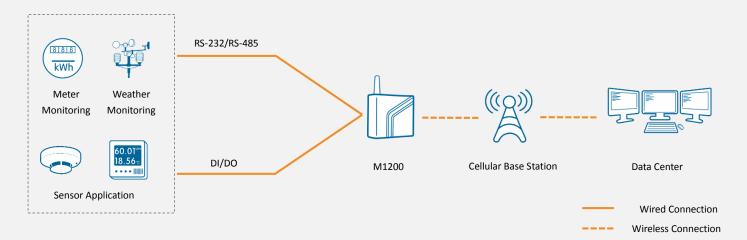
The Robustel Smart Industrial IoT Gateway M1200 is a compact cellular gateway based on GSM/GPRS/EDGE/UMTS/WCDMA/HSDPA/HSUPA/HSPA+/FDD LTE/TDD LTE/Cat.M1/Cat.NB1 networks. This dual-SIM gateway enables remote data transmission of local serial ports and I/O, and supports such interfaces as RS-232, RS-485 and mini-USB. M1200 provides users with stable network connectivity and data transmission. It is available to meet industrial application demands for its standards-compliant industrial designs. As a universal gateway, it can be applied in many scenarios such as Energy, Transportation and Agriculture, etc.

Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since its establishment in 2010 in Guangzhou, China, Robustel has been focusing on designing and manufacturing industrial cellular routers, gateways, modems, cloud platforms and E2E solutions. In order to support global business in more than 100+ countries and regions, Robustel has set up local offices in Germany, Australia, the Netherlands, the UK, Japan and Hong Kong.

KEY FEATURES

- Auto GSM/GPRS/EDGE/UMTS/WCDMA/HSDPA/
 HSUPA/HSPA+/FDD LTE/TDD LTE/Cat.M1/Cat.NB1
 connections (No AT command required)
- Dual-SIM backup (push-push or MFF type optional)
- IPsec/OpenVPN/GRE/L2TP/PPTP
- Transparent TCP and UDP protocol connections
- ICMP, DDNS, SNTP and Telnet
- Modbus RTU to TCP
- Auto rebooting via SMS and Timer
- Configuration and firmware upgrading via USB and RCMS
- Sending SMS if DI is triggered
- Robust industrial design (9 to 36V DC, -40 to +75 °C extended operating temperature, desktop or wall mounting or DIN rail mounting)
- Support bridge (modem only) mode, via serial port or USB port

APPLICATION EXAMPLE



SPECIFICATIONS

Cellular Interface

Number of antennas 1 Connector SMA-K

SIM slot 2 (3.0 V & 1.8 V)

Standards GSM/GPRS/EDGE/UMTS/WCDMA/HSDPA/

HSUPA/HSPA+/FDD LTE/TDD LTE/Cat.M1/Cat.NB1

Serial Interface

Number of ports $1 \times RS-232 + 1 \times RS-485$

Connector 10-pin 3.5 mm RP female socket with lock

 Baud rate
 300 bps to 115200 bps

 RS-232
 TxD, RxD, GND

 RS-485
 A (Data+), B (Data-)

Digital Input / Digital Output

Number of ports $2 \times DI$ (wet contact) + 1 x DO (wet contact) Connector 10-pin 3.5 mm RP female socket with lock

ESD withstand level contact: ±6 K, air: ±8 K
Absolute maximum VDC "V+" +5V DC (DI), 30V DC (DO)

USB Port

Number of ports 1 x Mini USB for configuration

Connector Mini Female

Speed 2.0 high speed up to 480 Mbit/s

Others

LED indicators 1 x RUN + 1 x RSSI (red/green bi-color light)

Built-in RTC, Watchdog, Timer

Software (Basic features of RobustOS)

Network protocols PPP, TCP, UDP, ICMP, HTTP, HTTPs, DNS, NTP,

SMTP, Telnet, SSH2, DDNS, etc.

VPN tunnel IPsec, OpenVPN, GRE Management Web, CLI, SMS

Serial port Transparent, TCP Client/Server, UDP, Modbus

RTU Gateway

App Center (Available Apps for RobustOS)
Apps* Language, RobustLink

*Request on demand. For more Apps please visit www.robustel.com.

Power Supply and Consumption

Connector 10-pin 3.5 mm RP female socket with lock

Input voltage 9 to 36V DC
Power consumption Idle: 50 to 70 mA@12 V
Data link: 300 mA (peak) @12 V

Data link: 300 mA (peak) @12 v

Physical Characteristics

Ingress protection IP30

Housing & Weight Plastic, 106 g
Dimensions 85 x 75 x 28.5 mm

Installations Desktop, wall mounting and 35 mm DIN rail

mounting

Approvals

Regulatory CE,RCM,FCC,PTCRB

Carrier AT&T

Environmental RoHS2.0, WEEE

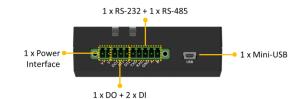
EMI EN 55032: 2015 (CE) Class B

EN 55032: 2015 (RE) Class B

EMS IEC 61000-4-2 (ESD) Contact Level 2; Air Level 3

IEC 61000-4-3 (RS) Level 2 IEC 61000-4-4 (EFT) Level 2 IEC 61000-4-5 (Surge) Level 3 IEC 61000-4-6 (CS) Level 2







ORDERING INFORMATION

Model	M1200-3P	M1200-4L	M1200-4M
Antenna Number	1	1	1
Air Interface	GSM/GPRS/EDGE/EGPRS/UMTS/W	GSM/GPRS/EDGE/EGPRS/UMTS/WCDM	EGPRS/Cat.M1/Cat.NB1
	CDMA/HSDPA/HSUPA/HSPA+	A/HSDPA/HSUPA/HSPA+/FDD LTE/TDD	
		LTE	
Frequency Bands*		EMEA:B1/B3/B5/B7/B8/B20;	Global:
4G		B38/B40/B41	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19
		AU: B1/B2/B3/B4/B5/B7/B8/B28; B40	/B20/B26/B28; B39(for Cat-M1 only)
3G	B1/B2/B5/B8/B19	EMEA: B1/B5/B8	
		AU: B1/B2/B5/B8	
2G	B2/B3/B5/B8	EMEA: B3/B8	Global: B2/B3/B5/B8
		AU: B2/B3/B5/B8	
Operating Temperature	-40 to +75 °C	-40 to +75 °C	-40 to +75 °C
Storage Temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Relative Humidity	0 to 95% RH	0 to 95% RH	0 to 95% RH

