

M1200 robustos

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



INTRODUCTION

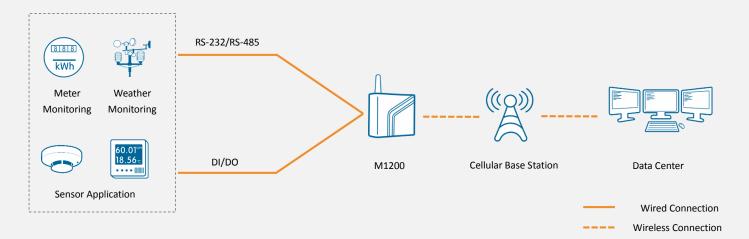
The Robustel Smart Industrial IoT Gateway M1200 is a compact cellular gateway based on GSM/GPRS/EDGE/UMTS/WCDMA/HSDPA/HSUPA/HSPA+/FDD LTE/TDD LTE/Cat.M1/Cat.NB1 networks. This dual-SIM gateway enables remote data transmission of local serial ports and I/O, and supports such interfaces as RS-232, RS-485 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 Connector SMA-K

SIM slot 2 (3.0 V & 1.8 V)

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

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

Serial Interface

1 x RS-232 + 1 x RS-485 Number of ports

10-pin 3.5 mm RP female socket with lock Connector

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 x 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 "V+" +5V DC (DI), 30V DC (DO) Absolute maximum VDC

USB Port

1 x Mini USB for configuration Number of ports

Connector Mini Female

2.0 high speed up to 480 Mbit/s Speed

Others

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

RTC, Watchdog, Timer Built-in

Software (Basic features of RobustOS)

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

SMTP, Telnet, SSH2, DDNS, etc.

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

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

RTU Gateway

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

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

Power Supply and Consumption

10-pin 3.5 mm RP female socket with lock Connector

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

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

Installations Desktop, wall mounting and 35 mm DIN rail

mounting

IP30

Approvals

Regulatory CE,RCM,FCC,PTCRB,IC

Carrier AT&T

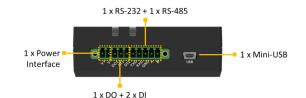
Environmental RoHS2.0, WEEE

EN 55032: 2015 (CE) Class B EMI EN 55032: 2015 (RE) Class B

FMS 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

