



M1200 robustos

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



## INTRODUCTION

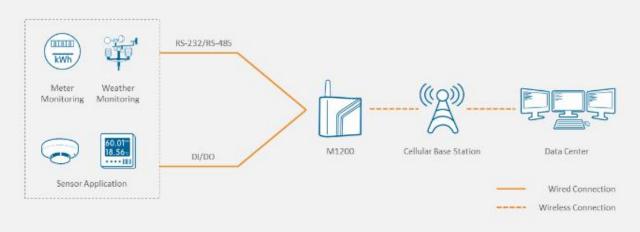
The Robustel Smart Industrial IoT Gateway M1200 is a compact cellular gateway based on GSM/GPRS/
EDGE/UMTS/WCDMA/HSDPA/HSUPA/HSPA+/FDD LTE/
TDD LTE/Cat.M1/Cat.NB1 networks. This dual-SIM gateway enables remote data transmission of local serial ports and I/O, and supports such interfaces as RS-232, RS-485 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 RobustLink
- > Sending SMS if DI is triggered (optional)
- 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 female 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** 

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

10-pin 3.5 mm RP female socket with lock Connector

300 bps to 115200 bps Baud rate RS-232 TxD, RxD, GND RS-485 A (Data+), B (Data-)

**Digital Input / Digital Output** 

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

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

**USB Port** 

1 x Mini USB for configuration Number of ports

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)

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.

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

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

**RTU Gateway** 

App Center (Available Apps for RobustOS)

Language, RobustLink Apps\*

\*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 Idle: 50 to 70 mA@12 V Power consumption

Data link: 300 mA (peak) @12 V

# **Physical Characteristics**

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

Installations Desktop, wall mounting and 35 mm DIN rail

**Approvals** 

CE,RCM,FCC,PTCRB Regulatory

Carrier AT&T Environmental RoHS, WEEE

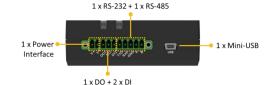
EMI EN 55032: 2015 (CE) Class B

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*		FDD LTE:	LTE
4G		B1/B2/B3/B4/B5/B7/B8/B13/B20/B28	Cat.M1/Cat.NB1:B1/B2/B3/B4/B5/B8/B
		TDD LTE: B38/B40/B41	12/B13/B18/B19/B20/B26/B28/B39(for
		3GPP E-UTRA Release 11	TDD)
3G	B1/B2/B5/B8/B19	B1/B2/B5/B8	
2G	850/900/1800/1900 MHz	850/900/1800/1900 MHz	EGPRS:850/900/1800/1900MHz
Operating Environment	-40 to +75 °C / 0 to 95% RH	-40 to +75 °C / 0 to 95% RH	-40 to +75 °C / 0 to 95% RH

<sup>\*</sup>For more information about frequency bands in different countries, please contact your Robustel sales representative.



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