

### Robustel M1200 Get Quote

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**PRODUCT DATASHEET** 



# M1200 robust

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.

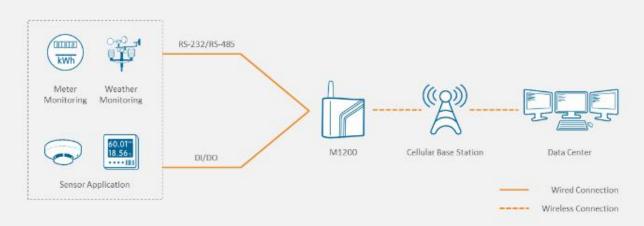
Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since its establishment in 2010 in Guangzhou, China, Robustel has been focusing on designing and manufacturing industrial cellular routers, gateways, modems, cloud platforms and E2E solutions. In order to support global business 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)

O PPPPPPPPP O

- 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 SIM slot Standards

1 SMA female 2 (3.0 V & 1.8 V) GSM/GPRS/EDGE/UMTS/WCDMA/HSDPA/ HSUPA/HSPA+/FDD LTE/TDD LTE/Cat.M1/Cat.NB1

#### Serial Interface

Number of ports Connector Baud rate RS-232 RS-485

1 x RS-232 + 1 x RS-485 10-pin 3.5 mm RP female socket with lock 300 bps to 115200 bps TxD, RxD, GND A (Data+), B (Data-)

#### **Digital Input / Digital Output**

Number of ports Connector ESD withstand level Absolute maximum VDC

**USB** Port

Number of ports Connector Speed

#### Others

LED indicators Built-in

1 x RUN + 1 x RSSI (red/green bi-color light) RTC, Watchdog, Timer

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 Web, CLI, SMS Management Transparent, TCP Client/Server, UDP, Modbus Serial port **RTU** Gateway

Mini Female

contact: ±6 K, air: ±8 K

"V+" +5V DC (DI), 30V DC (DO)

1 x Mini USB for configuration

2.0 high speed up to 480 Mbit/s

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
Power consumption	Idle: 50 to 70 mA@12 V
	Data link: 300 mA (peak) @12 V

## Approvals Regulatory Carrier AT&T Environmental EMI EMS 2 x DI (wet contact) + 1 x DO (wet contact) 10-pin 3.5 mm RP female socket with lock IEC 61000-4-6 (CS) Level 2 2 x SIM Slot 5391

**Physical Characteristics** 

IP30

Plastic, 106 g

Ingress protection

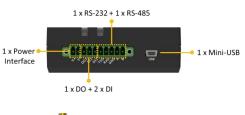
Housing & Weight

Dimensions

Installations

85 x 75 x 28.5 mm Desktop, wall mounting and 35 mm DIN rail mounting CE,RCM,FCC,PTCRB RoHS, WEEE EN 55032: 2015 (CE) Class B EN 55032: 2015 (RE) Class B 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







### ORDERING INFORMATION

Model	M1200-3P	M1200-4L	M1200-4M
Antenna Number	1	1	1
Air Interface	GSM/GPRS/EDGE/EGPRS/UMTS/W CDMA/HSDPA/HSUPA/HSPA+	GSM/GPRS/EDGE/EGPRS/UMTS/WCDM A/HSDPA/HSUPA/HSPA+/FDD LTE/TDD LTE	EGPRS/Cat.M1/Cat.NB1
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

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## US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

## **EMEA**

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28 Business Registration Number: 07699660