#### **PRODUCT DATASHEET**

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## M1200 robustos

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

### INTRODUCTION

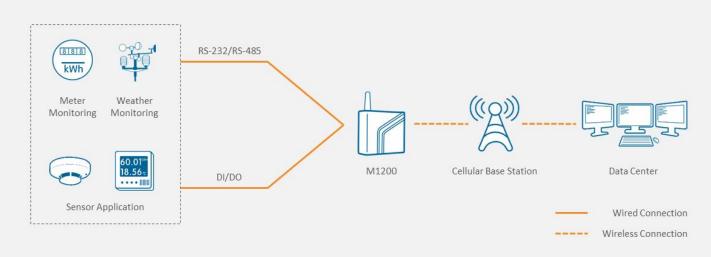
The Robustel Smart Industrial IoT Gateway M1200 is a compact cellular gateway based on GSM/GPRS/ EDGE/UMTS/WCDMA/HSDPA/HSUPA/HSPA+/FDD LTE/ TDD LTE/Cat.M1/Cat.NB1 networks. This dual-SIM gateway enables remote data transmission of local serial ports and I/O, and supports such interfaces as RS-232, RS-485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

#### Collular Interface

Cellular Interface Number of antennas Connector	1 SMA female	Input voltage Power consumption	9 to 36V DC Idle: 50 to 70 mA@12 V Data link: 300 mA (peak) @12 V
SIM slot	2 (3.0 V & 1.8 V)	Physical Characteristics	
Standards	GSM/GPRS/EDGE/UMTS/WCDMA/HSDPA/ HSUPA/HSPA+/FDD LTE/TDD LTE/Cat.M1/Cat.NB1	Ingress protection Housing & Weight Dimensions	IP30 Plastic, 106 g 85 x 75 x 28.5 mm
Serial Interface		Installations	Desktop, wall mounting and 35 mm DIN rail
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-)	EMC EMI EMS	mounting EN 55032: 2015 (CE) Class B EN 55032: 2015 (RE) Class B IEC 61000-4-2 2009 (ESD) Contact Level 3;
Digital Input / Digital Output			Air Level 3 IEC 61000-4-4 2012 (EFT) Level 2
Number of ports Connector ESD withstand level Absolute maximum VDC	2 x DI (wet contact) + 1 x DO (wet contact) 10-pin 3.5 mm RP female socket with lock contact: ±6 K, air: ±8 K "V+" +5V DC (DI), 30V DC (DO)	<b>Certifications</b> WEEE, RoHS, CE	IEC 61000-4-5 2014 (Surge) Level 2
USB Port			2 x SIM Slot
Number of ports Connector Speed	1 x Mini USB for configuration Mini Female 2.0 high speed up to 480 Mbit/s		1 x Cellular Antenna
Others		_	
LED indicators Built-in	1 x RUN + 1 x RSSI (red/green bi-color light) RTC, Watchdog, Timer	_	1 x RS-232 + 1 x RS-485
Software (Basic features of RobustOS)		1 x Power — 🕞	1 1 Mini-USB
Network protocols VPN tunnel Management Serial port	PPP, TCP, UDP, ICMP, HTTP, HTTPs, DNS, NTP, SMTP, Telnet, SSH2, DDNS, etc. IPsec, OpenVPN, GRE Web, CLI, SMS Transparent, TCP Client/Server, UDP, Modbus RTU Gateway	Interface	x DO + 2 x DI
App Center (Available Apps for RobustOS)			
Apps*	Language, RobustLink		
*Request on demand. For more Apps please visit www.robustel.com.			
Power Supply and Con	-		
Connector	10-pin 3.5 mm RP female socket with lock	1 DUN	

### **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

1 x RUN

LED Indicator

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



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1 x RSSI

LED Indicator