



M1201 robustOS

Smart Industrial IoT Gateway



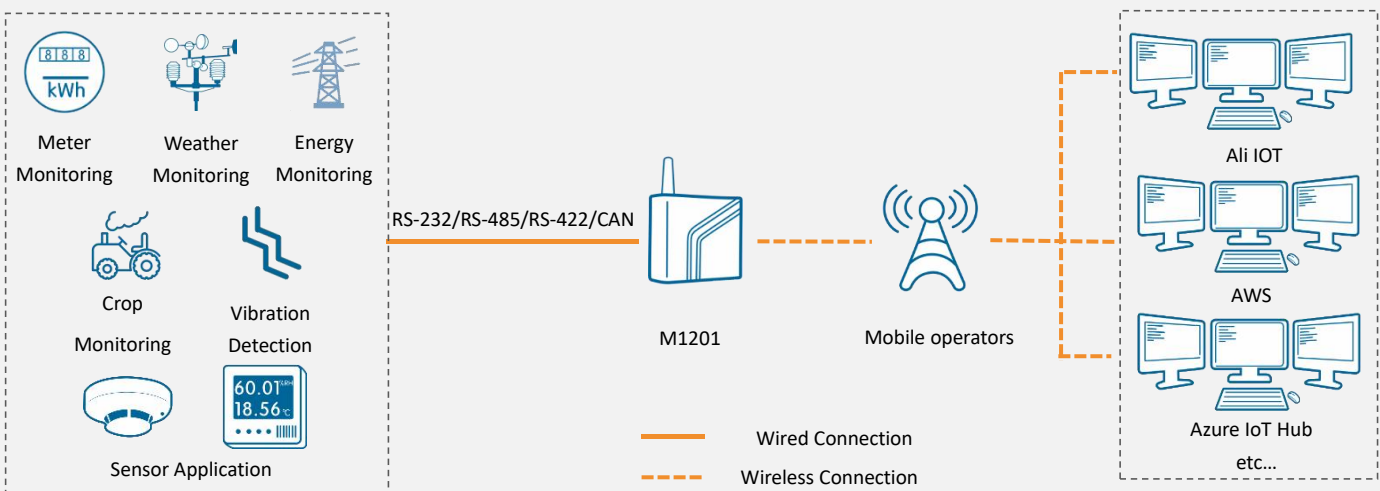
INTRODUCTION

The Robustel Smart Industrial IoT Gateway M1201 is a compact cellular gateway based on GSM/GPRS/EDGE/ WCDMA/ FDD LTE/TDD LTE networks. This single-SIM gateway enables remote data transmission of local serial ports, and supports such interfaces as RS-232, RS-485, RS-422 and CAN. M1201 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/ WCDMA / FDD LTE/TDD LTE connections (No AT command required)
- IPsec/OpenVPN/GRE/L2TP/PPTP
- Transparent TCP and UDP protocol connections
- ICMP, DDNS, SNTP and Telnet
- Transparent, TCP Client/Server, UDP, Modbus RTU Gateway
- Support data back to Azure IoT Hub , AWS , Ali IOT , Tencent IOT and Telit DeviceWISE and other platforms.
- Auto rebooting via SMS and Timer
- Configuration and firmware upgrading via USB and RCMS
- 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

Connector	1*SMA-K
SIM slot	1*Mini-SIM Card(3.0 V & 1.8 V)
Standards	GSM/GPRS/EDGE/FDD LTE/TDD LTE

Serial Interface

Configuration of ports	RS-232 / RS-485 / RS-422 / CAN
Connector	10-pin 3.5 mm socket with lock
RS-232	300 bps to 115200 bps
RS-485	300 bps to 115200 bps
RS-422	300 bps to 115200 bps
CAN	125kbps/250kbps/500kbps/1Mbps
RS-232	TXD, RXD, GND
RS-485	A (DATA+), B (DATA-),GND
RS-422	A(RX_DATA+),B(RX_DATA-) Y(TX_DATA+),Z(TX_DATA-),GND
CAN	CANH, CANL

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, RCMS

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

Power Supply and Consumption

Connector	10-pin 3.5 mm socket with lock
Input voltage	9 to 36V DC
Power consumption	Idle: 50 to 70 mA@12 V Data link: 500 mA (peak) @12 V

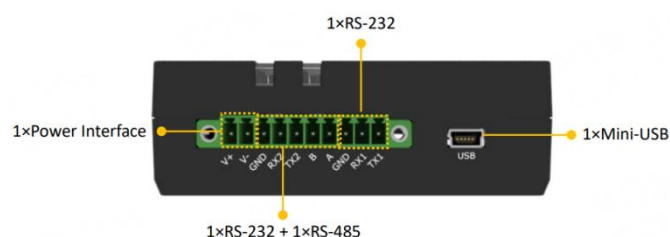
Physical Characteristics

Ingress protection	IP30
Housing & Weight	Plastic, 100 g
Dimensions	85 x 75 x 28.5 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting
Operating Temperature	-40 to +75 °C
Storage Temperature	-40 to +85 °C
Relative Humidity	0 to 95% RH

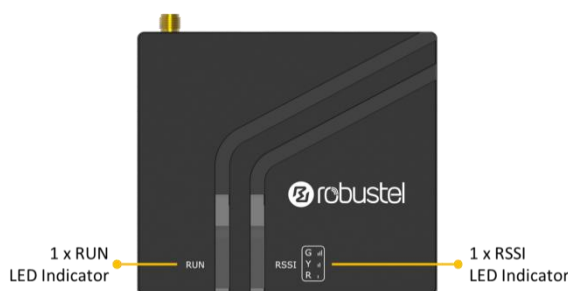
Approvals

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

*(in plan)



* This is M1201. For more information about ports in different equipments, please contact your Robustel sales representative.



ORDERING INFORMATION

PN	Model	Serial Interface Configuration	LTE Type	Frequency Bands		
				4G	3G	2G
B062709	M1201-A-A26AU-4E	2*RS232+1*RS485	CAT 1	LTE-FDD : B1/B2/B3/B4/B5/B7/B8/B28/B66 LTE-TDD : B38/B40/B41	/	GSM: B2/B3/B5/B8
B062710	M1201-B-A26AU-4E	1*RS232+2*RS485				
B062711	M1201-C-A26AU-4E	1*RS232+1*RS422				
B062712	M1201-D-A26AU-4E	1*RS232+1*RS485+1*CAN				

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