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robustOS

M1200

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

INTRODUCTION

The Robustel Smart Industrial IoT Gateway M1200 is a compact cellular gateway compatible with 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 from local serial ports and I/O, supporting interfaces such as RS-232, RS-485, and mini-USB. The M1200 provides users with stable network connectivity and reliable data transmission, designed to meet the demands of industrial applications with its standards-compliant design. As a versatile gateway, it is applicable in various scenarios, including energy, transportation, agriculture, and more.

The **Robustel Cloud Manager Service (RCMS)** is a unified cloud-based platform designed for real-time monitoring and centralized management of industrial IoT devices. Fully compatible with Robustel routers and gateways, RCMS delivers an interactive geospatial dashboard that enables users to visualize device locations and track critical metrics such as data usage, signal strength, and network status. To ensure seamless operations, the platform facilitates over-the-air (OTA) updates for firmware, configurations, and applications, minimizing downtime while optimizing system performance. Experience robust, cloud-native device management by registering at: https://rcms-cloud.robustel.net





KEY FEATURES

- Automatic connections for GSM/GPRS/EDGE/UMTS/ WCDMA/HSDPA/HSUPA/HSPA+/FDD LTE/TDD LTE/Cat M1/ Cat NB1 (no AT commands required)
- > Dual-SIM backup options (push-push or MFF type)
- > Supports IPsec, OpenVPN, GRE, L2TP, and PPTP protocols
- Transparent TCP and UDP protocol connections
- Features include ICMP, DDNS, SNTP, and Telnet support
- Modbus RTU to TCP conversion
- Auto-reboot functionality via SMS and timer
- Configuration and firmware upgrades via USB and RCMS
- > SMS notifications when Digital Input (DI) is triggered
- Robust industrial design with a voltage range of 9 ~ 36 V DC, extended operating temperature from -40 ~ +75 °C, and options for desktop, wall, or DIN rail mounting
- > Support for bridge (modem-only) mode via serial or USB port



SPECIFICATIONS

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BadrateJops ~ 115200 bpsJarguage, RCMS, etc.Signal definitionR-322: 1AO, RAO, GND"Request on demand. For more-X-pices visit www.robustel.com.Digital Input/Output >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		10-pin 3.5 mm RP female socket with lock	App Center (Available A	App Center (Available Apps for RobustOS)		
Spigal definition Rs232: YD, RxD, GND Request on demand. For more -please visit www.robustle.com. Spigal definition Rs485: A (Data+), B (Data-) Cloud Platform Number of ports x DI (wet contact) + 1 x DO (wet contact) Robust (Dod Manager) Robust (Dod Manager) Sorice (RCMS) Service (RCMS) Service (RCMS) Stability and level Ontact ± 6K; Air: ± 8K Ingress protection IP30 Absolute maximum VDC V+V DC (DI), 30 V DC (DO) Ingress protection IP30 Stability and for fords V+V DC (DI), 30 V DC (DO) IDmensions 85 x 75 x 85 mm Number of ports V+V DC (DI), 30 V DC (DO) Installations Ipstall neuruting and 35 mm DIN rail mounting Solate and ford market protection in the ford plant biol (SB for configuration configuration console) Single temperature 40 ~ 470 °C Number of ports V No in fenale Sorage temperature 40 ~ 470 °C Solate Apply and Construct No intrail mounting and 35 mm DIN rail mounting a	Baud rate	300 bps ~ 115200 bps	Apps*	Language, RCMS, etc.		
Image: Probability of ports Sx-485: A (Data+), B (Data+) Cloud Platform Number of ports 2x D (wet contact) + 1 x D (wet contact) Robust Cloud Manager Robust Link, RobustVPN, Operation Console Connector 10-pin 3.5 mm RP female socket with lock Physical Characteristics Physical Characteristics Kosolute maximum VDc 0-vir D (D), 30 V D (DO) Physical Characteristics Physical Characteristics VMber of ports 1x Mini USB for configuration Qistor configuration Qistor configuration Connector Mini female Qiorating temperature 40 ~ +70 °C Speed 1x Mini USB for configuration Operating temperature 40 ~ +85 °C Connector Mini female Storage temperature 40 ~ +85 °C Speed 1x RST Relative humidity 0 = 95% RH (non-condensing) Ebi Indicators 1x RSN (1 x RSS) (red/green bicolor light) Relative humidity NS502 Conducted Emission Class B Built-in Toxuschdog, Timer Environmental RMS202 Conducted Emission Class B Connector 1y 2y V D_C, 9^- 36 V D_C Environmental RMS202 Conducted Emission Class B Built-in Toxuschdog, Timere Environmental RMS1004-3 (RS) Level 2, Air Level 3 Connector 1y 2y V D_C, 9^- 36 V D_C Environmental RMS202 Conducted Emis	Signal definition		*Request on demand. For more Apps please visit www.robustel.com.			
Digital Input/Output PortRobustle Cloud Manager Service (RCMS)Robustle Cloud Manager Service (RCMS)Number of ports2 x DI (wet contact) + 1 x DO (wet contact)Service (RCMS)Connector10-pin 3.5 mm RP female socket with lockIngress protectionP30ESD withstand levelContact: ±6 K, Air: ±8 KHousing & WeightPlastic, 106 gAbsolute maximum VDC"v*" DC (DI), 30 V DC (DO)Dimensions28.5 x 75 x 85 mmUSB Port1 x Mini USB for configurationOperating temperature40 ~ +70 °CConnectorMini femaleStorage temperature40 ~ +85 °CSpeed2.0 high speed, up to 480 Mbit/sStorage temperature0 ~ 95% RH (non-condensing)Poters1 x RSTRegulatory and Type AppLie Dindicators1 x RSI (red/green bi-color light)EnvironmentalR05302 Conducted Emission Class BBuilt-in1 x RSI, Y a SG V DCEMIN 55322 Conducted Emission Class BPower Supply and Conserv10-pin 3.5 mm RP female socket with lockEMSEN 50322 Conducted Emission Class BInput voltage12/24 V DC, 9~ 36 V DCEMSEMSEN 61000-4.2 (ESD) Contact Level 2, Air Level 3Input voltage12/24 V DC, 9~ 36 V DCEMIEMIEMI000-4.2 (ESD) Contact Level 2, Air Level 3Input voltage12/24 V DC, 9~ 36 V DCEMIEMI 5000-4.4 (EFT) Level 2Input voltage12/24 V DC, 9~ 36 V DCEMI 5000-4.5 (S) Level 2Rower consumptionIdle: 1.Wei 12 VEMI 5000-4.6 (CS) Level 2Wower consumptionIdle: 1.Wei 12	Ū		Cloud Platform			
Connector0-pin 3.5 mm RP female socket with lockPhysical CharacteristicsESD withstand levelContact: £6 K; Air: ±8 KIngress protectionP30Absolute maximum VDC''v4''D C (DI), 30 V DC (DO)Dimensions28.5 x 75 x 85 mmUSB PortInstallationsDimensions28.5 x 75 x 85 mmNumber of ports1 x Mini USB for configurationOperating temperature-40 ~ +70 °CSpeed2.0 high speed, up to 480 Mbit/sStorage temperature-40 ~ +85 °CSpeed2.0 high speed, up to 480 Mbit/sRelative humidity> 95% RH (non-condensing)Reset button1 x RSTEnvironmentalRelative humidity0 = 95% RH (non-condensing)Bult-in1 x RUN, 1 x RSI (red/green bi-color light)EMIENS032 Conducted Emission Class BBult-in1 x Qu't Atdodog, TimerEMIENS032 Radiated Emission Class BConnector1 op in 3.5 mm RP female socket with lockEMSEN 5032 Conducted Emission Class BInput voltage1 op in 3.5 mm RP female socket with lockEMSEN 51000-4.2 (ESD) Contact Level 2, Air Level 3Input voltage1 op in 3.5 mm RP female socket with lockEM 61000-4.5 (Surge) Level 3EN 61000-4.6 (S) Level 2Input voltage1 op in 2.5 mm RP female socket with lockEM 61000-4.6 (S) Level 2EN 61000-4.6 (S) Level 3Input voltage1 op in 3.5 mm RP female socket with lockEN 61000-4.6 (S) Level 3EN 61000-4.6 (S) Level 3Input voltage1 op in 3.5 mm RP female socket with lockEN 61000-4.6 (S) Level 3EN 61000-4.6 (S) Level 3			-	RobustLink, RobustVPN, Operation Console		
SD withstand level Absolute maximum VDCContact: s6 K; Air: s8 K Concot Muscle maximum VDCInderess protection Housing & WeightPiscit, 106 gAbsolute maximum VDC"V+" OC (DI), 30 V OC (DO)Dimensions25 x 75 x 85 mmVILDE VInstallationsDimensions26 x 70 °CNumber of portsMini femaleOperating temperature40 °+ 70 °CConnectorMini femaleStorage temperature40 °+ 85 °CSpeedJo high speed, up to 480 Mbit/sRelative humidity0 *95% RH (non-condensing)Feste button1 x RSTEnvironmentalRMS20 Quited Emission Class BLib Indicators1 x RSD (red/green bi-color light)ENVironmentalRMS20 Quited Emission Class BButt-in1 x RSD (red/green bi-color light)EMSNS 5032 Conducted Emission Class BFormer Supply and Concert1 Q-24 v DC, 9 ~36 v DCEMSNS 6000-42 (ESD) Contact Level 2, Air Level 3Input voltage1 Q-14 v DC, 9 ~36 v DCStorage temperatureNS 6000-43 (RS) Level 3Input voltage1 Q-14 v DC, 9 ~36 v DCEMSNS 6000-43 (RS) Level 3Input voltage1 Q-14 v DC, 9 ~36 v DCStorage temperatureNS 6000-44 (ETT) Level 2, Air Level 3Input voltage1 Q-14 v DC, 9 ~36 v DCInput voltageNS 6000-45 (Surge) Level 3Input voltage1 Q-14 v DC, 9 ~36 v DCInput voltageNS 6000-44 (ETT) Level 2Input voltage1 Q-14 v DC, 9 ~36 v DCInput voltageNS 6000-44 (ETS) Level 2Input voltage1 Q-14 v DC, 9 CInput voltageNG 6000-44	Number of ports	2 x DI (wet contact) + 1 x DO (wet contact)	Physical Characteristics			
Absolute maximum VDC "V+" DC (DI), 30 VD C(DO) Housing & Weight Plastic, 106 g Absolute maximum VDC "V+" DC (DI), 30 VD C(DO) Dimensions 28.5 x 75 x 85 mm VUBP orf Installations Desktop, wall mounting and 35 mm DIN rail mounting Number of ports Installations 0 operating temperature 40 ~ +70 °C Connector Mini USB for onfiguration 60 operating temperature 40 ~ +85 °C Speed 0.bigh speed, up to 480 Mbit/s Feditive humidity ~ 95% RH (non-condensing) Chers Invironmental Regulatory and Type Apply and Construction of the point of the poi	Connector	10-pin 3.5 mm RP female socket with lock	Ingress protection	IP30		
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Number of ports1 x Mini USB for configurationDesktop, wall mounting and 35 mm DIN rail mountingConnectorMini femaleOperating temperature $40 ^+70 ^\circC$ Speed2.0 high speed, up to 480 Mbit/sStorage temperature $40 ^+85 ^\circC$ Desk button1 x RSTRelative humidity $0 ^95\% RH (non-condensing)$ Reset button1 x RUN, 1 x RSSI (red/green bi-color light)Regulatory and Type App	Absolute maximum VDC	"V+" DC (DI), 30 V DC (DO)	Dimensions	28.5 x 75 x 85 mm		
ConnectorMini femaleGolerating temperature40 ° 40 ° 40 ° 40 ° 40 ° 40 ° 40 ° 40 °	USB Port		Installations	Desktop, wall mounting and 35 mm DIN rail mounting		
Speed40°+85°CSpeed2.0 high speed, up to 480 Mbit/sRelative humidity0°95% RH (non-condensing)OthersRelative humidity0°95% RH (non-condensing)Reset button1× RSTRegulatory and Type APU-Condensing)LED indicators1× RUN, 1× RSSI (red/green bi-color light)Regulatory and Condensing)Built-inRC, Watchdog, TimerEMIN 55032 Conducted Emission Class BPower Supply and CondensityEMSEN 50032 Radiated Emission Class BInput voltage1/24 V DC, 9~36 V DCEMSEN 61000-4-2 (ESD) Contact Level 2, Air Level 3Input voltage1/24 V DC, 9~36 V DCEMSEN 61000-4-3 (RS) Level 2Power consumptionIdie: 1/@12 VEN 61000-4-5 (Surge) Level 3Max: 4W@12 VIdie: 1/@12 VEN 61000-4-6 (CS) Level 2Max: 4W@12 VIdie: 1/@12 VIdie: 1/@12 VMax: 4W@12 VIdie: 1/@12 V<	Number of ports	1 x Mini USB for configuration	Operating temperature	-40 ~ +70 °C		
Others Relative humidity 0° 95% RH (non-condensing) Reset button 1x RST LED indicators 1x RUN, 1 x RSSI (red/green bi-color light) Built-in RC, Watchdog, Timer Power Supply and Consumption Refailed with lock Input voltage 12/24 V DC, 9~36 V DC Reverse polarity protection, surge protection EN 61000-4-2 (ESD) Contact Level 2, Air Level 3 Reverse polarity protection, surge protection EN 61000-4-3 (RS) Level 2 Power consumption Idie: 1 W@12 V Max: 4 W@12 V Anx: 4 W@12 V	Connector	Mini female	Storage temperature	-40 ~ +85 °C		
Reset button 1 x RST Regulatory and Type Aprovals LED indicators 1 x RUN, 1 x RSSI (red/green bi-color light) Environmental RoHS2.0, WEEE Built-in RT, Watchdog, Timer EMI EN 55032 Radiated Emission Class B Power Supply and Convector 10-pin 3.5 mm RP female socket with lock EMS EN 61000-4-2 (ESD) Contact Level 2, Air Level 3 Connector 10-pin 3.5 mm RP female socket with lock EMS EN 61000-4-3 (RS) Level 2 Input voltage 12/24 v DC, 9 ~ 36 v DC EN 61000-4-5 (Surge) Level 3 Reverse polarity protection, surge protection EN 61000-4-5 (Surge) Level 3 Power consumption Idle: 1 W@12 V EN 61000-4-5 (Surge) Level 2 Max: 4 W@12 V Aix 4 W@12 V EN 61000-4-5 (Surge) Level 2	Speed	2.0 high speed, up to 480 Mbit/s	Relative humidity	0 ~ 95% RH (non-condensing)		
Index Environmental RoHS2.0, WEEE LED indicators 1 x RUN, 1 x RSSI (red/green bi-color light) EMI EN 55032 Conducted Emission Class B Built-in Ro-Watchdog, Timer EMS EN 5002 Conducted Emission Class B Power Supply and Consector 10-pin 3.5 mm RP female socket with lock EMS EN 61000-4-2 (ESD) Contact Level 2, Air Level 3 Input voltage 1/24 V DC, 9~36 V DC EN 61000-4-3 (RS) Level 2 EN 61000-4-4 (EFT) Level 2 Power consumption Ide: 1 w@12 V EN 61000-4-5 (Surge) Level 3 EN 61000-4-6 (CS) Level 2	Others		Regulatory and Type Approvals			
Built-in RTC, Watchdog, Timer EMI EN 55032 Conducted Emission Class B Power Supply and Consumption Inopin 3.5 mm RP female socket with lock EMS EN 61000-4-2 (ESD) Contact Level 2, Air Level 3 Connector 10-pin 3.5 mm RP female socket with lock EMS EN 61000-4-3 (RS) Level 2 Input voltage 12/24 V DC, 9 ~ 36 V DC EN 61000-4-4 (EFT) Level 2 EN 61000-4-4 (EFT) Level 2 Power consumption Idle: 1 W@12 V EN 61000-4-6 (CS) Level 2 EN 61000-4-6 (CS) Level 2	Reset button	1 x RST	Environmental	RoHS2.0, WEEE		
Power Supply and Consumption EMS EN 61000-4-2 (ESD) Contact Level 2, Air Level 3 Connector 10-pin 3.5 mm RP female socket with lock EN 61000-4-3 (RS) Level 2 Input voltage 12/24 V DC, 9 ~ 36 V DC EN 61000-4-4 (EFT) Level 2 Reverse polarity protection, surge protection EN 61000-4-5 (Surge) Level 3 Power consumption Idle: 1 W@12 V EN 61000-4-6 (CS) Level 2 Max: 4 W@12 V Max: 4 W@12 V	LED indicators	1 x RUN, 1 x RSSI (red/green bi-color light)	EMI	EN 55032 Conducted Emission Class B		
Connector10-pin 3.5 mm RP female socket with lockEN 61000-4-3 (RS) Level 2Input voltage12/24 V DC, 9 ~ 36 V DCEN 61000-4-4 (EFT) Level 2Reverse polarity protection, surge protectionEN 61000-4-5 (Surge) Level 3Power consumptionIdle: 1 W@12 VEN 61000-4-6 (CS) Level 2Max: 4 W@12 VMax: 4 W@12 V	Built-in	RTC, Watchdog, Timer		EN 55032 Radiated Emission Class B		
Input voltage 12/24 V DC, 9 ~ 36 V DC EN 61000-4-4 (EFT) Level 2 Reverse polarity protection, surge protection EN 61000-4-5 (Surge) Level 3 Power consumption Idle: 1 W@12 V Max: 4 W@12 V Attribute	Power Supply and Consumption		EMS	EN 61000-4-2 (ESD) Contact Level 2, Air Level 3		
Input Voltage Input Voltage EN 61000-4-5 (Surge) Level 3 Reverse polarity protection, surge protection EN 61000-4-6 (CS) Level 2 Power consumption Idle: 1 W@12 V Max: 4 W@12 V Max: 4 W@12 V	Connector	10-pin 3.5 mm RP female socket with lock				
Power consumption Idle: 1 W@12 V Max: 4 W@12 V	Input voltage	12/24 V DC, 9 ~ 36 V DC				
Power consumption Idle: 1 W@12 V Max: 4 W@12 V		Reverse polarity protection, surge protection				
	Power consumption	ldle: 1 W@12 V				
Recommended power supply 12 V DC/1.0 A power adapter		Max: 4 W@12 V				
	Recommended power supply	12 V DC/1.0 A power adapter				

ORDERING INFORMATION

Model	Order Code	Frequency Bands*	Country /Region	Certification	Package Contains
M1200-4L	A003300703	4G: LTE FDD: B1/3/5/7/8/20 LTE TDD: B38/40/41 3G: WCDMA: B1/5/8 2G: GSM: B3/8	EMEA+SEA	ICASA, CE, UKCA	1 x M1200 Gateway (B Code: B033702)
	A003300704	4G: LTE FDD: B1/2/3/4/5/7/8/28 LTE TDD: B40 3G: WCDMA: B1/2/5/8 2G: GSM: B2/3/5/8	ANZ+LATAM	CRC, SUBTEL, RCM, FCC, MTC, ENACOM, URSEC, ARCOTEL	1 x M1200 Gateway (B Code: B033701)

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

