

GoRugged M1000 Pro V2

Dual SIM Industrial Serial to Cellular Gateway

for GSM/GPRS/EDGE/UMTS Networks

Robustel GoRugged M1000 Pro V2 is a rugged serial to cellular gateway with dual SIM offering state-of-the-art 2G/3G connectivity for machine to machine (M2M) applications.

Key Features

- Dual SIM redundancy for continuous cellular connection.
- Various SIM backup polices: PING/Monthly data traffic/Roaming.
- Auto GPRS/UMTS connection (no AT commands required).
- Support CSD communication (only receive CSD call).
- Transparent TCP and UDP socket connections.
- Supports Virtual COM (COM port redirector).
- Supports ICMP, DDNS, Telnet.
- Supports RobustLink (Centralized M2M management platform).
- \bullet Supports Modbus gateway (Modbus RTU to Modbus TCP).
- Supports Modbus master polling, collects data at preset interval and sends to RobustLink.
- Various reboot policies: SMS/Caller ID/Timing.
- Various dial-up policies: Always Online/Connect On Demand.
- Remote configuration via RobustLink/TCP/SMS.
- Remote firmware upgrade via RobustLink/TCP.
- RS232/RS485 selectable by software.
- \bullet Six LED indicators provide signal strength and running status.
- Watchdog for reliable communications.
- Wide range input voltages from 9 to 36 VDC and extreme operating temperature.
- The metal enclosure can be mounted on a DIN-rail or on the wall, also with extra ground screw.



Applications

- Automatic Meter Reading
- PLC Remote Management
- Vending Machine Remote Management
- LED Signage Publication
- POS Connectivity Backup

Regulatory and Type Approvals

- Approval and Detective: CE , R&TTE, A-Tick, RoHS, WEEE
- EMC: EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 4
 EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 3
 EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN 61000-4-12

RT_DS_M1000 Pro V2_v.2.1.0





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Specifications

Cellular Interface

• Standards: GSM/GPRS/EDGE/UMTS

• GPRS: max. 86 kbps (DL & UL), class 10

• EDGE: max. 236.8 kbps (DL & UL), class 12

• UMTS: max. 384 kbps (DL & UL)

 Frequency: 850/900/1800/1900 MHz for GPRS/EDGE, 850/900/1800/1900/2100 MHz for UMTS/HSPA+

• CSD: Up to 14.4 kbps

• SIM: 2 x (3V & 1.8V)

• Antenna Interface: SMA Female

Serial Interface

Number of Ports: 1 x DB9 Female
Serial Standards: RS232 and RS485

 \bullet ESD Protection: \pm 15KV

Baudrate: 1200bps to 115200bps
RS-232: TxD, RxD, RTS, CTS, GND
RS-485: Data+ (A), Data- (B), GND

Note: 3G version does not support auto reboot via

SMS/Caller ID when GPRS/UMTS is online.

System

• LED Indicators: PWR, RUN, NET and 3 level RSSI

• Real Time Clock: Built-in RTC with button battery

• Watchdog and Timer: Built-in watchdog and timer

Software

• IP protocols: PPP, TCP, UDP, ICMP, DDNS, Telnet

 Serial Port: TCP client/server, UDP, Modbus RTU to Modbus TCP, Virtual COM (COM port redirector)

• RobustLink: Centralized M2M management platform

Power Supply and Consumption

• Power Supply Interface: 2-pin 5mm pluggable terminal block

• Input Voltage: 9 to 36 VDC

• Power Consumption: Idle: 50-60 mA@12 V

Data Link: 100 to 200 mA (peak)@12 V

Physical Characteristics

• Housing & Weight: Metal, 300g

• Dimension(L x W x H): 102 x 71 x 29 mm

• Installation: 35mm Din-Rail or wall mounting or desktop

Selection and Ordering Data

Model No.	Description	Operating Environment
M1000-PGPRSA	1-port RS232, GPRS Class 10	-40 to 85°C/5 to 95% RH
M1000-PGPRSB	1-port RS232/RS485, GPRS Class 10	-40 to 85°C/5 to 95% RH
M1000-PUMTSA	1-port RS232, GPRS/EDGE/UMTS	-40 to 85°C/5 to 95% RH
M1000-PUMTSB	1-port RS232/RS485, GPRS/EDGE/UMTS	-40 to 85°C/5 to 95% RH

Packing List

- Robustel M1000 Pro V2 Modem
- Terminal Block for Power Connector
- Document and Software CD

Optional Accessories (can be purchased separately)

- AC/DC Power Supply Adapter
- Rubber SMA Antenna
- 35mm Din-Rail mounting kit or Wall mounting kit
- Serial cable (DB9 Female to DB9 Male)
- DB9 Male to terminal block for serial port

Contact:

www.robustel.com info@robustel.com

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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