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).
- 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.
- 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 Certification: CE, R&TTE, A-Tick, RoHS, WEEE,
  IEC 61000-6-5:2001
- EMC:
  EMI: EN 55022 (2006/A1: 2007) Class B
  EMS: IEC 61000-4-2(ESD) Level 4,
         IEC 61000-4-3 (RS) Level 4
         IEC 61000-4-4 (EFT) Level 4,
         IEC 61000-4-5 (Surge) Level 3
         IEC 61000-4-6 (CS) Level 3,
         IEC 61000-4-8 Level 4

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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)
- 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
- ESD Protection: ±15KV
- Baudrate: 1200bps to 115200bps
- RS-232: TxD, RxD, RTS, CTS, GND
- RS-485: Data+ (A), Data- (B)

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, 850/900/1800/1900 MHz	-40 to 85°C/5 to 95% RH
M1000-PGPRSB	1-port RS232/RS485, GPRS Class 10, 850/900/1800/1900 MHz	-40 to 85°C/5 to 95% RH
M1000-PUMTSA	1-port RS232, GPRS/EDGE 850/900/1800/1900 MHz, UMTS 850/900/1900/2100 MHz	-40 to 85°C/5 to 95% RH
M1000-PUMTSB	1-port RS232/RS485, GPRS/EDGE 850/900/1800/1900 MHz, UMTS 850/900/1900/2100 MHz	-40 to 85°C/5 to 95% RH

Packing List

- Robustel M1000 Pro V2 Gateway
- 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

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