

# GoRugged M1000 Pro V2

## Industrial Dual SIM 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 policies: 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
- Support DI trigger sending SMS(optional)
- 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

- Approvals and Certificates: 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)
- Connector: SMA, female

#### Serial Interface

- Number of ports: 1 x DB9 Female
- Serial standards: RS232 or RS485
- ESD protection:  $\pm 15$ KV
- Baud rate: 1200bps to 115200bps
- RS-232: TxD, RxD, RTS, CTS, GND
- RS-485: Data+ (A), Data- (B)

#### System

- LED indicators: 1 x NET, 1 x SYS, 1 x PWR, 3 x 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

- Connector: 2-pin 5mm pluggable terminal block
- Input voltage: 9 to 36V DC
- Power consumption: Idle: 50-60 mA@12 V  
Data Link: 100 to 200 mA  
(peak)@12 V

#### Physical Characteristics

- Housing & Weight: Metal, 300 g
- Dimensions: 102 x 71.5 x 29.5 mm
- Installations: flat surface placement, wall mounting and 35 mm DIN rail mounting

### Ordering Information

Model No.	Description	Operating Environment
M1000-PUMTSA	1 x RS-232 UMTS 900/2100 MHz, HSDPA/HSUPA/HSPA+ 800/850/900/1900/2100 MHz, GSM/GPRS/EDGE 850/900/1800/1900 MHz	-40 to 85°C/5 to 95% RH
M1000-PUMTSB	1 x RS-232/1 x RS-485 UMTS 900/2100 MHz, HSDPA/HSUPA/HSPA+ 800/850/900/1900/2100 MHz, GSM/GPRS/EDGE 850/900/1800/1900 MHz	-40 to 85°C/5 to 95% RH

#### Packing Contents

- 1 x Robustel M1000 Pro V2 Gateway
- 1 x Terminal block for power
- 1 x *Quick Start Guide* with download link of other documents or tools

#### Optional Accessories (sold separately)

- AC/DC power adapter
- Rubber SMA antenna
- Serial cable (DB9 female to DB9 male)
- Serial terminal block with a DB9 male connector
- Wall mounting kit
- 35 mm DIN rail mounting kit