GoRugged M1000 XP

Industrial Serial to Cellular Gateway

for GSM/GPRS/UMTS Networks

Robustel GoRugged M1000 XP is a compact design serial to cellular gateway with plastic housing, offering state-of-the-art GSM/GPRS/UMTS connectivity for machine to machine (M2M) applications.

Key Features

- Auto GPRS/UMTS connect or reconnect (no AT commands required).
- Support CSD communication (only receive CSD call).
- Transparent TCP and UDP socket connections.
- Supports ICMP, DDNS, SNTP, Telnet.
- Supports Modbus RTU to Modbus TCP.
- Auto reboot via SMS/Caller ID/Timing.
- Various dial-up policies: Always Online/Connect on Demand.
- Supports RobustLink (Centralized M2M management platform).
- Configuration methods: RS232/USB/SMS/TCP/RobustLink.
- Firmware upgrade via RS232/USB/TCP/RobustLink.
- Two tri-color LED indicators provide signal strength (RSSI) and running status.
- Watchdog for reliable communications.
- Wide range input voltages from 6 to 18 VDC and extreme operating temperature.
- The plastic 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, RCM, RoHS, WEEE

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Specifications

Cellular Interface
- Standards: GSM/GPRS/UMTS
- GPRS: max. 86 kbps (DL & UL), class 10
- UMTS: max. 384 kbps (DL & UL)
- Frequency: GSM 850/900/1800/1900 MHz
  UMTS 850/1900 MHz or 900/2100
- CSD: Up to 9.6 kbps
- SIM: 1 x (3V & 1.8V)
- Antenna Interface: SMA Female

Serial Interface
- Number of Ports: 1 x DB9 Female
- Serial Standards: RS232 or RS485
- ESD Protection: 15KV
- Baudrate: 1200bps to 115200bps
- RS-232: TxD, RxD, RTS, CTS, GND
- RS-485: Data+ (A), Data- (B), GND

USB Interface
- Number of Ports: 1 x USB port for configuration
- Standards: Mini USB

System
- LED Indicators: 2 tri-color LED indicators, RUN, 3 level RSSI
- Real Time Clock: Built-in real time clock
- Watchdog and Timer: Built-in watchdog and timer

Software
- IP protocols: PPP, TCP, UDP, ICMP, DDNS, SNTP, 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 3.5mm pluggable terminal block
- Input Voltage: 6 to 18 VDC
- Power Consumption: Idle: 50-60 mA @ 12 V
  Data Link: 100 to 200 mA (peak) @ 12 V

Physical Characteristics
- Housing & Weight: Plastic, 105g
- Dimension(L x W x H): 75 x 85 x 28 mm
- Installation: 35mm Din-Rail or wall mounting or desktop

Selection and Ordering Data

Model No.	Description	Operating Environment
M1000-XP2GA	1-port RS232, GPRS	-40 to 85°C/5 to 95% RH
M1000-XP2GB	1-port RS485, GPRS	-40 to 85°C/5 to 95% RH
M1000-XP3HA	1-port RS232, GPRS/UMTS	-40 to 85°C/5 to 95% RH
M1000-XP3HB	1-port RS485, GPRS/UMTS	-40 to 85°C/5 to 95% RH

Packing List
- Robustel M1000 XP 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)
- Mini USB Male to USB Type A Male cable
- DB9 Male to terminal block for serial port

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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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