GoRugged M1000 MP

Industrial Cellular Modem

for GSM/GPRS/EDGE/UMTS/HSPA+ Networks

Robustel GoRugged M1000 MP is a compact design cellular modem with serial/USB port and plastic housing, offering state-of-the-art 2G/3G connectivity for machine to machine (M2M) applications.

Key Features

- Control via AT commands (Hayes 3GPP TS 27.007 and 27.005).
- TCP/IP, SMS, CSD access via AT commands.
- 1 serial port and 1 mini USB 2.0 high speed interface.
- Wide range input voltages 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
- Bulk SMS

Regulatory and Type Approvals

- Approval and Detective: CE, R&TTE, RCM, RoHS, WEEE

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Specifications

Cellular Interface
- Standards: GSM/GPRS/EDGE/UMTS/HSDPA/HSPA+
- GPRS: max. 86 kbps (DL & UL), class 10
- EDGE: max. 236.8 kbps (DL & UL), class 12
- UMTS: max. 384 kbps (DL & UL)
- HSDPA: max. 3.6 Mbps/384 kbps (DL/UL)
- HSPA+: max. 14.4/5.76 Mbps (DL/UL)
- Frequency: 850/900/1800/1900 MHz for GPRS/EDGE, 900/2100 MHz or 850/900/1900/2100 MHz for UMTS/HSDPA/HSPA+
- 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
- Parameters: 1200bps to 115200bps
- RS-232: DCD, RxD, TxD, DTR, GND, DSR, RTS, CTS, RI
- RS-485: Data+ (A), Data- (B), GND

USB Interface
- Number of Ports: 1 x mini USB Female
- Speed: USB 2.0 High Speed (480 Mbit/s)
- ESD Protection: 15KV

System
- LED Indicators: RUN

Power Supply and Consumption
- Power Supply Interface: 2-pin 3.5mm pluggable terminal block
- Input Voltage: 6 to 18 VDC (2G model)
                6 to 26 VDC (3G model)
- 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	Input Voltage
M1000-MP2GA	1 port RS232, GSM/GPRS 850/900/1800/1900 MHz	-40 to 85°C/5 to 95% RH	6 to 18 VDC
M1000-MP2GB	1 port RS485, GSM/GPRS 850/900/1800/1900 MHz	-40 to 85°C/5 to 95% RH	6 to 18 VDC
M1000-MP3HA	1 port RS232, 1 mini USB port, UMTS/HSDPA 900/2100 MHZ, Quad band GSM/GPRS/EDGE	-40 to 85°C/5 to 95% RH	6 to 26 VDC
M1000-MP3PA	1 port RS232, 1 mini USB port, UMTS/HSPA+ 850/900/1900/2100 MHz, Quad band GSM/GPRS/EDGE	-40 to 85°C/5 to 95% RH	6 to 26 VDC

Packing List
- Robustel M1000 MP 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
- Mini USB Male to USB Type A Male cable

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