

GoRugged M1000 Lite

Cost Effective Industrial Cellular Modem

for GSM/GPRS Networks

Robustel GoRugged M1000 Lite is a cost effective and rugged cellular modem offering state-of-the-art GSM/GPRS connectivity for machine to machine (M2M) applications.

Key Features

- Control via AT commands (Hayes 3GPP TS 27.007 and 27.005).
- GPRS, TCP/IP, SMS, CSD access via AT commands.
- RS232 or RS485 interface option.
- Wide range input voltages from 9 to 36 VDC and wide range operating temperature: -25 to 70 °C.
- The metal enclosure can be mounted on a DIN-rail or on the wall, also with extra ground screw.
- Auto reboot every 24 hours to avoid system hang up.



Applications

Bulk SMS
PLC Remote Management
LED Signage Publication

Regulatory and Type Approvals

Approval and Detective: RoHS, WEEE

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Specifications

Cellular Interface

- Standards: GSM/GPRS
- GPRS: max. 86 kbps (DL & UL), class 12
- Frequency: 850/900/1800/1900 MHz
- CSD: Up to 14.4 kbps
- Output Power: 1 watt GSM1800/1900
2 watts EGSM 900/GSM 850
- SIM: 1 x (3V&1.8V)
- Antenna Interface: SMA Female, 50 ohms impedance

Serial Interface

- Number of Ports: 1 x DB9 Female
- Serial Standards: RS232 or RS485
- ESD Protection: 15KV
- Parameters: 8N1, 300bps to 115200bps
- Flow Control: RTS/CTS, XON/XOFF
- RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND
- RS-485: Data+ (A), Data- (B), GND

System

- LED Indicators: 2 indicators, PWR, NET
- Watchdog and Timer: Built-in watchdog and timer

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): 102.4 x 71.4 x 29.4 mm
- Installation: 35mm Din-Rail or wall mounting or desktop

Environmental Limits

- Operating Temperature & Humidity: -25 to 70°C, 5 to 95% RH
- Storage Temperature: -40 to 85°C

Warranty

- Warranty Period: 1 Year

Selection and Ordering Data

Model No.	Description
M1000-LQM35A	1-port RS232, GPRS Class 12
M1000-LQM35B	1-port RS485, GPRS Class 12

Packing List

Robustel M1000 Lite 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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