

GoRugged M1000 Java

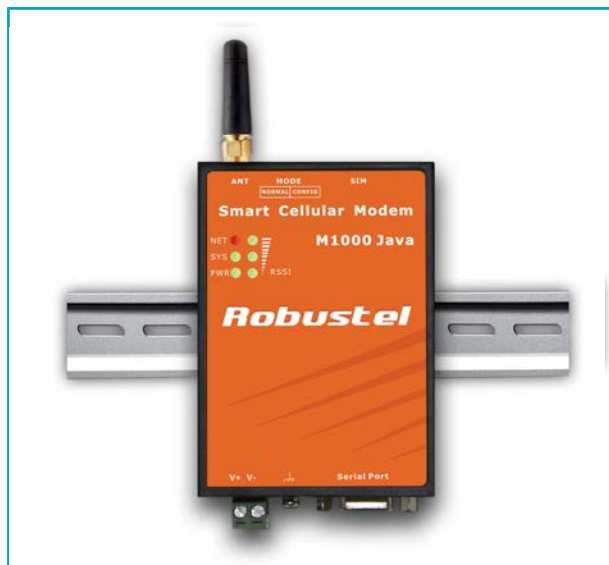
Industrial Java Programmable Cellular Modem

for GSM/GPRS Networks

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

Key Features

- Built-in **Java™** open platform environment enabling the user to run the application software directly on the shared resources such as internal microprocessor and memory.
- Control via AT commands (Hayes 3GPP TS 27.007 and 27.005).
- GPRS, TCP/IP, SMS, CSD access via AT commands.
- RS232/RS485 selectable by software.
- Six LED indicators provide signal strength (RSSI) and status.
- 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 during a preset time of a day.
- Firmware upgrade via serial interface or over the air (FOTA).



Applications

Automatic Meter Reading
PLC Remote Management
Vending Machine Remote Management
LED Signage Publication
POS Connectivity Backup

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 and RS485 selectable by software
- ESD Protection: 15KV
- Parameters: 8N1, 8E1, 8O1, 8N2, 7E1, 7O1, 1200bps to 115200bps
- Flow Control: RTS/CTS, XON/XOFF
- RS-232: TxD, RxD, RTS, CTS, GND
- RS-485: Data+ (A), Data- (B), GND

Open Application Resources

- ARM® Core, Blackfin® DSP
- Memory: 400 KB (RAM) and 1.7 MB (Flash)
- Improved power-saving modes

Java™ Features

- CLDC 1.1 HI
- J2ME™ profile IMP-NG
- Secure data transmission with HTTPS, SSL and PKI

Over-the-Air Update

- Application SW: OTAP
- Firmware: FOTA (OMA compliant)

Selection and Ordering Data

Model No.	Description
M1000-JC65IA	1-port RS232, GPRS Class 12
M1000-JC65IB	1-port RS232/RS485, GPRS Class 12

System

- LED Indicators: 6 indicators, PWR, RUN, NET and 3 level RSSI
- Real Time Clock: Built-in real time clock with button battery
- 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

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

Packing List

Robustel M1000 Java Modem
Terminal Block for Power Connector
Document and Software CD



Contact:

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