

GoRugged M1000 USB

Industrial Cellular USB Modem

for 2G/3G/**4G** Networks

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Robustel GoRugged M1000 USB is a rugged cellular modem with Mini USB interface offering state-of-the-art 2G (GPRS/EDGE)/3G (HSPA)/**4G (LTE)** connectivity for machine to machine (M2M) applications.

Key Features

- Control via AT commands.
- USB 2.0 high speed interface allows it to manage and optimize the performances of 3G and 4G high-speed networks.
- LTE downlink/uplink up to 100/50 Mbps.
- GPS receiver optional for specified model.
- Antenna diversity for improved fringe performance optional.
- Comprehensive SDK and enabling drivers for Linux and Windows.
- Wide range input voltages from 12 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.

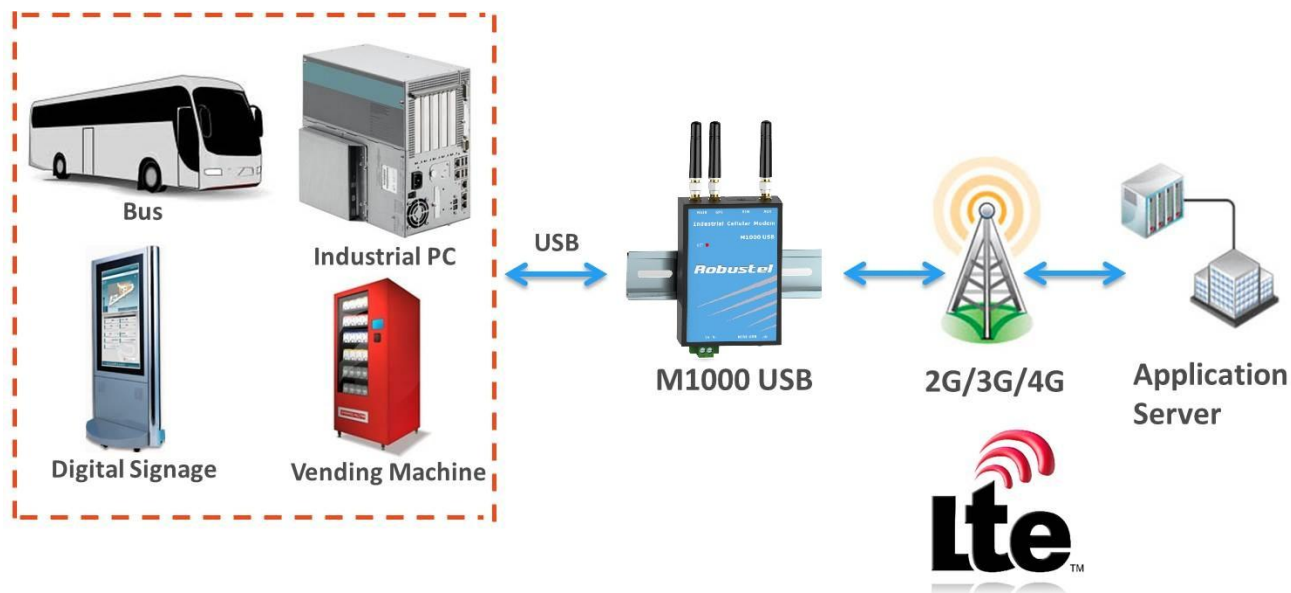


Applications

- Industrial PC connectivity
- Ticket Vending Machine connectivity
- Digital Signage connectivity

Regulatory and Type Approvals

- Approval and Detective: CE, RoHS, WEEE, E-Mark, EN 45545-2:2013



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Specifications

Cellular Interface

- Standards: LTE (DL/UL up to 100/50 Mbps), HSPA+/HSUPA/HSDPA/UMTS, EDGE/GPRS
- Frequency: Please refer to "[Selection and Ordering Data](#)"
- SIM: 1 x (3V & 1.8V)
- Antenna Interface: SMA Female

USB Interface

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

GPS (optional for M1000-U3P and M1000-U4L)

- Protocol: NMEA
- Modes: Standalone GPS, Assisted GPS

Drivers

- Drivers: Multi-O/S

System

- LED Indicator: NET

Power Supply and Consumption

- Power Supply Interface: 2-pin 5mm pluggable terminal block with lock
- Input Voltage: 12 to 36 VDC

Physical Characteristics

- Housing & Weight: Metal, 300g
- Dimension(L x W x H): 102 x 71 x 29 mm
- Installation: 35mm Din-Rail or wall mounting or desktop

Selection and Ordering Data

Model No.	Air Interface	Frequency	Operating Environment
M1000-U4L	LTE/HSPA+/UMTS/EDGE/GPRS	LTE 800/900/1800/2100/2600 MHz (DL/UL up to 100/50 Mbps) UMTS 900/2100 MHz, GSM 900/1800/1900 MHz	-40 to 85°C/5 to 95% RH
M1000-U3P	HSPA+/UMTS/EDGE/GPRS	UMTS 850/900/1900/2100 MHz (DL/UL 14.4/5.76 Mbps) , GSM Quad Band	-40 to 85°C/5 to 95% RH
M1000-USB	mPCIe interface	w/o module, mPCIe interface	-40 to 85°C/5 to 95% RH

Optional Accessories (can be purchased separately)

- AC/DC Power Supply Adapter
- Rubber SMA Antenna
- 35mm Din-Rail mounting kit or Wall mounting kit

Packing List

- Robustel M1000 USB Modem
- Mini USB Cable
- Terminal Block for Power Connector
- Document and Software CD

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