GoRugged M1000 USB

Industrial Cellular USB Modem

For 2G/3G/4G Networks

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.
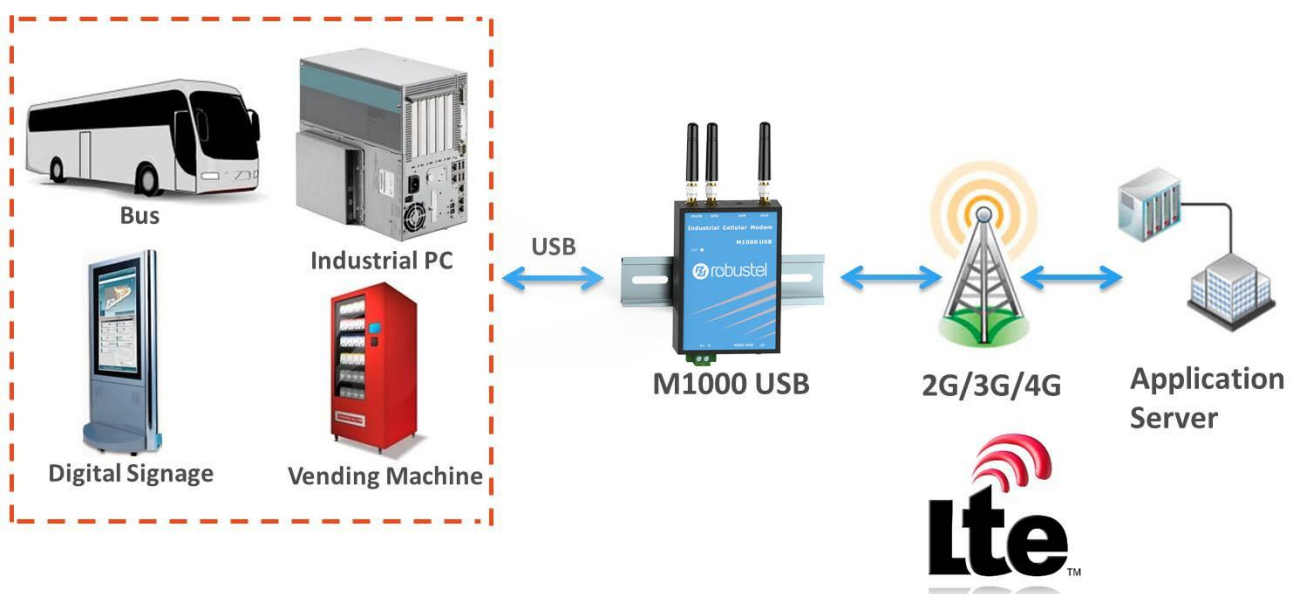- The metal enclosure can be mounted on a DIN-rail or on the wall, also with extra ground screw.

Applications

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

Regulatory and Type Approvals

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

Specifications

Cellular Interface
- Standards: LTE /HSPA+/HSUPA/HSDPA/UMTS, EDGE/GPRS
- LTE: max. 100/50 Mbps (DL/UL)
- UMTS: max. 384 kbps (DL & UL)
- SIM: 1 x (3 V & 1.8 V)
- 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,** 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, 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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