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
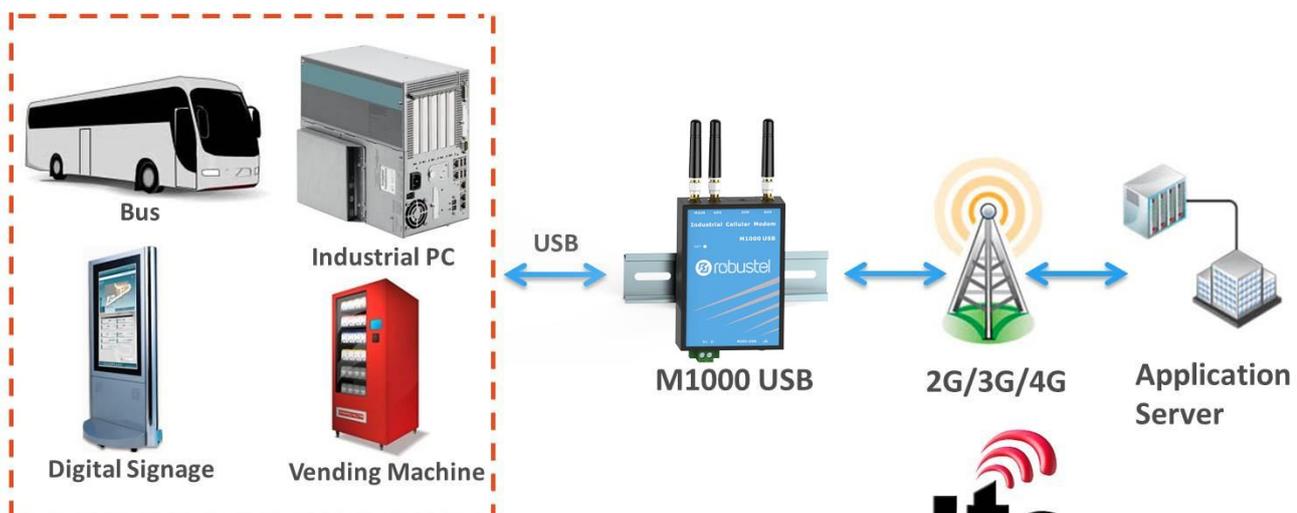
Typical Applications

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

Regulatory and Type Approvals

- Approvals and Certificates: 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)
- Connector: SMA, female

USB Interface
- Number of ports: 1 x Mini Type A, female
- Speed: USB 2.0 High Speed (480 Mbit/s)
- ESD protection: 15 KV

GPS (optional for M1000-U3P and M1000-U4L)
- Protocol: NMEA
- Modes: Standalone GPS, Assisted GPS

Drivers
- Drivers: Multi-O/S

System
- LED indicator: 1 x NET

Power Supply and Consumption
- Connector: 2-pin 5 mm pluggable terminal block with lock
- Input voltage: 12 to 36V DC

Physical Characteristics
- Housing & Weight: Metal, 300 g
- Dimensions: 102 x 71 x 29 mm
- Installations: flat surface placement, wall mounting and 35 mm DIN rail mounting

Ordering Information

Model No.	Air Interface	Frequency Bands	Operating Environment
M1000-U4L	GSM/GPRS/EDGE/HSDPA/ HSUPA/HSPA+/UMTS/DC-HSPA+/TD-SCDMA/FDD LTE/TDD LTE	LTE B1/B2/B3/B4/B5/B7/B8/B20, B38/B39/B40/B41 HSDPA/HSUPA/HSPA+ B1/B2/B5/B6/B8/B9, TD-SCDMA B34/B39 UMTS/DC-HSPA+ B1/B2/B5/B6/B8 GSM/GPRS/EDGE 850/900/1800/1900 MHz	-40 to 85°C 5 to 95% RH
M1000-U3P	GSM/GPRS/EDGE/HSDPA /HSUPA/HSPA+	HSDPA/HSUPA/HSPA+ 800/850/900/1900/2100 GSM/GPRS/EDGE 850/900/1800/1900	-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 (sold separately)
- AC/DC power adapter
- Rubber SMA antenna
- Wall mounting kit
- 35 mm DIN rail mounting kit

Package Contents
- 1 x Robustel M1000 USB Industrial Cellular Modem
- 1 x Mini USB cable
- 1 x Terminal block for power
- 1 x *Quick Start Guide* with download link of other documents or tools

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