

GoRugged M1000 USB

Industrial Cellular USB Modem

for 2G/3G/4G Networks

Robustel GoRugged M1000 USB is a rugged cellular modem with USB interface offering state-of-the-art 2G (GPRS / EDGE) / 3G (HSPA / EV-DO) / **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 9 to 36 VDC and wide range operating temperature: -25 to 60 °C.
- The metal enclosure can be mounted on a DIN-rail or on the wall, also with extra ground screw.

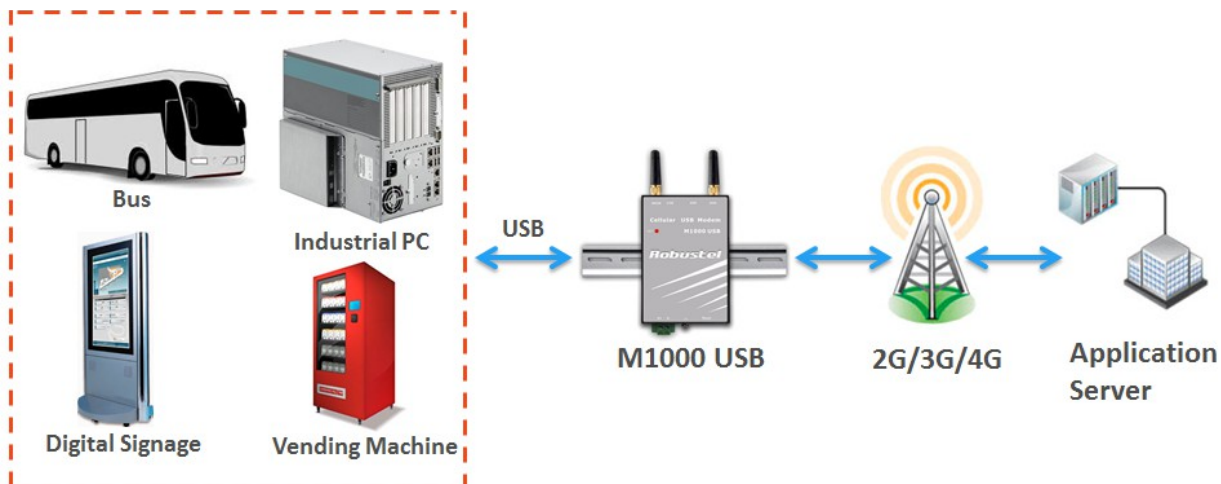


Applications

Industrial PC connectivity
Ticket Vending Machine connectivity
Digital Signage connectivity

Regulatory and Type Approvals

Approval and Detective: RoHS, WEEE



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Industrial Cellular USB Modem

Specifications

Cellular Interface

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

GPS (optional for M1000-UC3H8N and M1000-UC3H8P)

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

USB Interface

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

Drivers

- Drivers: Windows 2000/XP/Vista/7/CE, Linux 2.6

System

- LED Indicator: NET

Power Supply and Consumption

- Power Supply Interface: 2-pin 5mm pluggable terminal block with lock
- Input Voltage: 9 to 36 VDC

Physical Characteristics

- Housing & Weight: Metal, 300g
- Dimension(L x W x H): 111 x 72 x 28 mm
- Installation: 35mm Din-Rail or wall mounting or desktop

Environmental Limits

- Operating Temperature & Humidity: -25 to 60°C, 5 to 95% RH
- Storage Temperature: -40 to 85°C

Warranty

- Warranty Period: 1 Year

Selection and Ordering Data

Model No.	Built-in Module	Air Interface	Frequency
M1000-US4700	Sierra Wireless MC7700	LTE HSPA+/UMTS GSM/GPRS/EDGE	LTE 700 (B17)/AWS (DL/UL up to 100/50 Mbps) WCDMA 850/1900/2100 MHz, EDGE/GPRS/GSM 850/900/1800/1900 MHz
M1000-US4710	Sierra Wireless MC7710		LTE 800/900/1800/2100/2600 MHz (DL/UL up to 100/50 Mbps) WCDMA 900/2100 MHz, EDGE/GPRS/GSM 900/1800/1900 MHz
M1000-US4750	Sierra Wireless MC7750	LTE, EV-DO Rev. A	LTE: 700 (B13) MHz (DL/UL up to 100/50 Mbps) , CDMA 800/1900 MHz
M1000-UH320W	Huawei EM820W	HSPA+/UMTS	WCDMA 850/900/1900/2100 MHz (DL/UL up to 21/5.76 Mbps)
M1000-UC3H8N	Cinterion PH8	GSM/GPRS/EDGE	WCDMA 800/850/1700/1900/2100 MHz (DL/UL up to 14.4/5.76 Mbps)
M1000-UC3H8P	Cinterion PH8-P		WCDMA 800/850/900/1900/2100 MHz (DL/UL up to 14.4/5.76 Mbps)
M1000-UC275i	Cinterion MC75i	GSM/GPRS/EDGE	EDGE/GPRS/GSM 850/900/1800/1900 MHz, class 12

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)

Packing List

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



Robustel