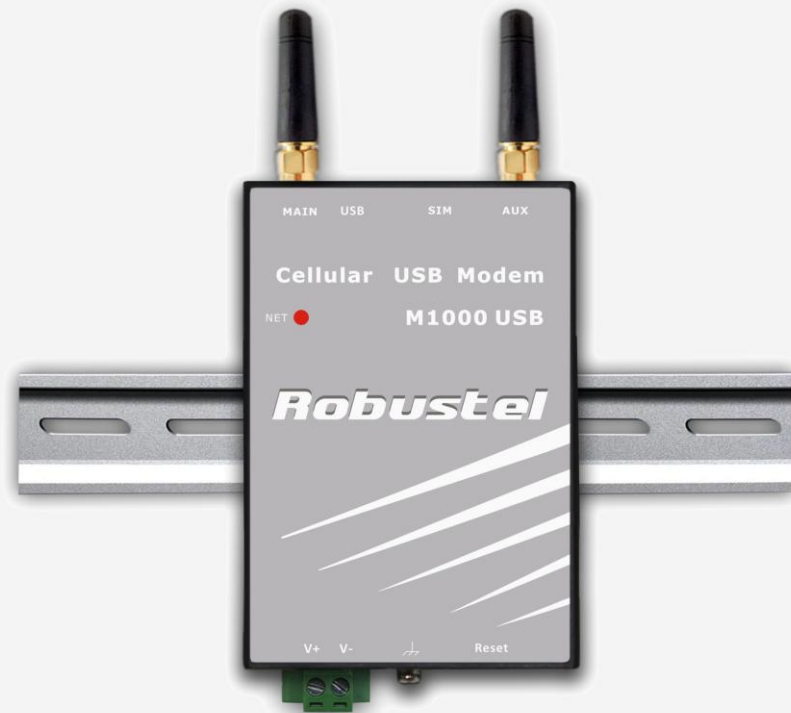


Robustel GoRugged M1000 USB

Industrial Cellular USB Modem
for 2G / 3G / **4G** Networks



Overview

- The Robustel GoRugged M1000 USB is a rugged industrial 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.
- USB 2.0 high speed interface allows it to manage and optimize the performances of 3G and 4G high-speed networks.
- GPS receiver optional for specified model.
- The modem supports a wide range of input voltages from 9 to 36 VDC.
- The metal enclosure can be mounted on a DIN-rail or on the wall, also with extra ground screw.

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Features

- Control via AT commands
- Antenna diversity for improved fringe performance optional
- Comprehensive SDK and enabling drivers for Linux and Windows

Specifications

Cellular Interface	Air Interface	LTE HSPA+/HSUPA/HSDPA/UMTS EDGE/GPRS EV-DO
	Frequency	Please refer to “Selection and Ordering Data” for supported frequencies.
GPS (optional for M1000-UC3H8N and M1000-UC3H8P)	Protocol	NMEA
	Modes	Standalone GPS Assisted GPS
SIM Interface	Number of SIMs	1
	SIM Card Reader	3V, 1.8V
Antenna Interface	Antenna Interface	SMA Female, 50 ohms impedance, RX-Diversity antenna optional
USB Interface	Number of Ports	1
	Interface	Type A Female
	Speed	USB 2.0 High Speed (480Mbit/s)
	ESD Protection	15KV
Drivers	Drivers	Windows 2000/XP/Vista/7/CE, Linux 2.6 (Source-Code)
LED Indicators	LED Indicators	1 LED indicator
Power Supply Interface	Power Supply Interface	2-pin 5mm pluggable terminal block
Power Requirements	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	Metal
	Weight	300g
	Dimension	(L x W x H): 111 x 72 x 28 mm
	Installation Method	35mm Din-Rail or wall mounting or desktop
Environmental Limits	Operating Temperature	-25 to 60°C
	Storage Temperature	-40 to 85°C
	Operating Humidity	5 to 95% RH
Regulatory and Type Approvals	Directives	RoHS and WEEE compliant
	CE and R&TTE Approval	TBD
Warranty	Warranty Period	1 year

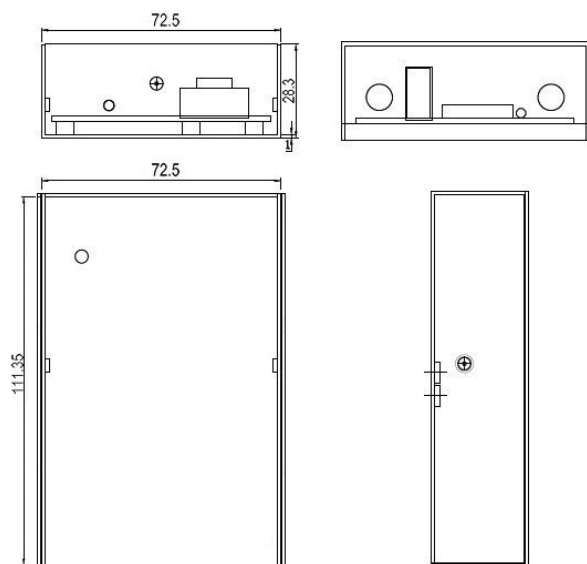
Packing List

- Robustel M1000 USB modem x1
- SMA antenna (Stubby antenna or Magnet antenna optional) x1
- 2-pin 5mm pluggable terminal block for power connector x1
- USB cable (Type A Male to Type A Male) x1
- CD with user guide and drivers x1

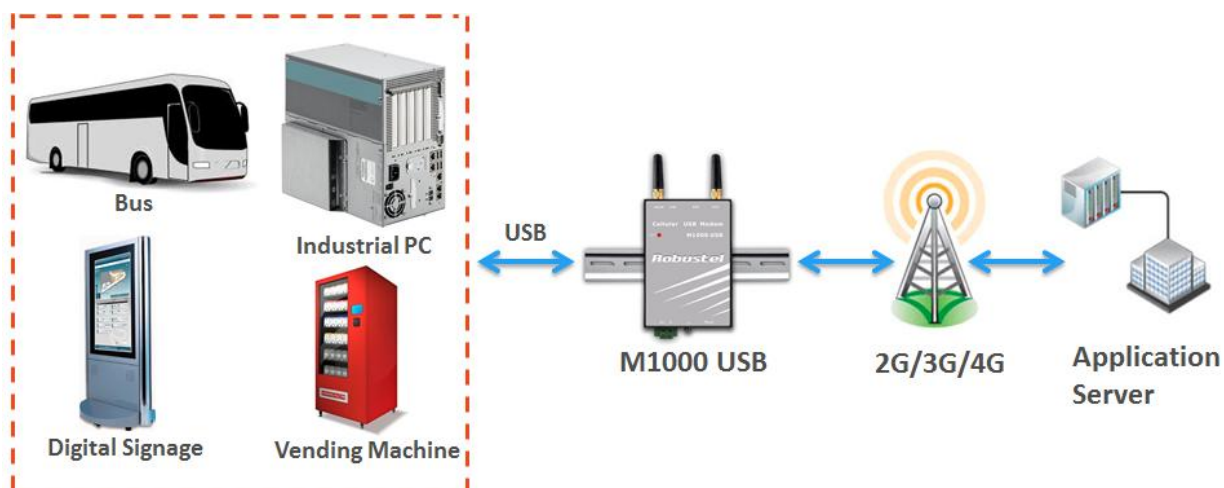
Optional Accessories (can be purchased separately)

- AC/DC Power Supply Adapter (Input 100 to 240VAC, output 1A @ 12VDC) x1
- Rx-Diversity SMA antenna optional (Stubby antenna or Magnet antenna optional) x1
- 35mm Din-Rail mounting kit x2

Dimensions



Applications



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 HSPA+/UMTS GSM/GPRS/EDGE	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-UH370W	Huawei EM770W	HSUPA/UMTS GSM/GPRS/EDGE	WCDMA 850/900/1900/2100 MHz (DL/UL up to 7.2/5.76 Mbps) EDGE/GPRS/GSM 850/900/1800/1900 MHz
M1000-UH320W	Huawei EM820W	HSPA+/UMTS GSM/GPRS/EDGE	WCDMA 850/900/1900/2100 MHz (DL/UL up to 21/5.76 Mbps) EDGE/GPRS/GSM 850/900/1800/1900 MHz
M1000-UVE100	Vertex VWM100	EV-DO Rev.B/Rev.A CDMA 2000 1x	CDMA 450 MHz (A/B/C/E/I/L band) (DL/UL up to 14.7/5.4 Mbps)
M1000-UC3H8N	Cinterion PH8	HSPA+/UMTS GSM/GPRS/EDGE	WCDMA 800/850/1700/1900/2100 MHz (DL/UL up to 14.4/5.76 Mbps) EDGE/GPRS/GSM 850/900/1800/1900 MHz
M1000-UC3H8P	Cinterion PH8-P	HSPA+/UMTS GSM/GPRS/EDGE	WCDMA 800/850/900/1900/2100 MHz (DL/UL up to 14.4/5.76 Mbps) EDGE/GPRS/GSM 850/900/1800/1900 MHz
M1000-UC3U3E	Cinterion EU3-E	HSDPA/UMTS GSM/GPRS/EDGE	WCDMA 900/2100 MHz (DL/UL up to 3.6 Mbps/384 Kbps) EDGE/GPRS/GSM 900/1800 MHz
M1000-UC3U3P	Cinterion EU3-P	HSDPA/UMTS GSM/GPRS/EDGE	WCDMA 850/900/2100 MHz (DL/UL up to 3.6 Mbps/384 Kbps) EDGE/GPRS/GSM 900/1800 MHz
M1000-UC275I	Cinterion MC75i	GSM/GPRS/EDGE	EDGE/GPRS/GSM 850/900/1800/1900 MHz, class 12
M1000-UC263I	Cinterion TC63i	GSM/GPRS	EDGE/GPRS/GSM 850/900/1800/1900 MHz, class 12

Subject to change without notice.

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