GoRugged M1000 UP

Industrial Cellular USB Modem

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

Robustel GoRugged M1000 UP is a rugged cellular modem with USB interface and plastic enclosure 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.
- Antenna diversity for improved fringe performance optional.
- Comprehensive SDK and enabling drivers for Linux and Windows.
- 1 mini USB 2.0 high speed interface.
- Wide range input voltages from 6 to 26 VDC and extreme operating temperature.
- The plastic enclosure can be mounted on a DIN-rail or on the wall, also with extra ground screw.
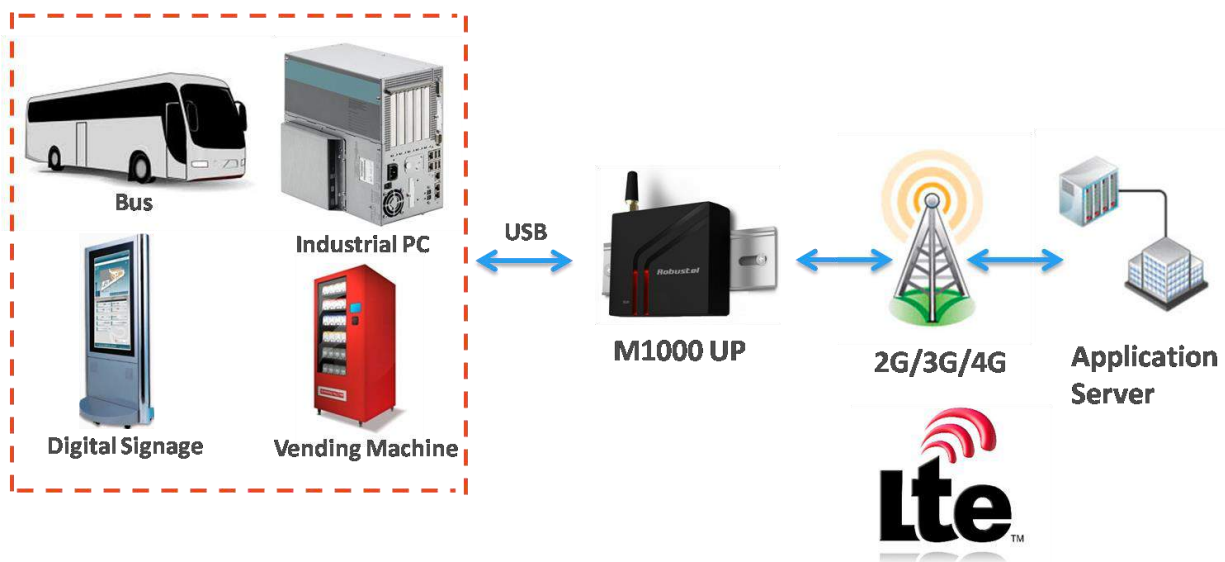
Applications

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

Regulatory and Type Approvals

- Approval and Detective: RoHS, WEEE

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Specifications

Cellular Interface
- Standards: LTE (DL/UL up to 100/50 Mbps), HSPA+/HSUPA/HSDPA/UMTS, EDGE/GPRS, EVDO 450
- 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 USB Female
- Speed: USB 2.0 High Speed (480 Mbit/s)
- ESD Protection: 15KV

GPS (optional for M1000-UP3P and M1000-UP4L)
- Protocol: NMEA
- Modes: Standalone GPS, Assisted GPS

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

System
- LED Indicators: RUN

Power Supply and Consumption
- Power Supply Interface: 2-pin 3.5mm pluggable terminal block
- Input Voltage: 6 to 26 VDC
- Power Consumption: Idle: 50-60 mA@12 V
  Data Link: 100 to 200 mA (peak)@12 V

Physical Characteristics
- Housing & Weight: Plastic, 105g
- Dimension(L x W x H): 75 x 85 x 28 mm
- Installation: 35mm Din-Rail or wall mounting or desktop

Selection and Ordering Data

Model No.	Air Interface	Frequency	Operating Environment
M1000-UP4L	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	-25 to 60°C/5 to 95% RH
M1000-UP3P	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-UP3H	HSUPA/UMTS/EDGE/GPRS	UMTS 900/2100 MHz (DL/UL 7.2/5.76 Mbps), GSM 900/1800 MHz	-40 to 85°C/5 to 95% RH
M1000-UP3E	EVDO 450 Rev. B/Rev. A	EVDO 450 MHz (DL/UL 14.7/5.4 Mbps)	-20 to 60°C/5 to 95% RH
M1000-UP	mPCIe interface	w/o module, mPCIe interface	-40 to 85°C/5 to 95% RH

Packing List
- Robustel M1000 UP Modem
- Terminal Block for Power Connector
- Document and Software CD

Optional Accessories (can be purchased separately)
- AC/DC Power Supply Adapter
- Rubber SMA Antenna
- 35mm Din-Rail mounting kit or Wall mounting kit
- Mini USB Male to USB Type A Male cable

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