M1000 MP

Industrial Cellular Modem
1 RS-232/RS-485 + 1 USB Host

INTRODUCTION

The Robustel Industrial Cellular Modem M1000 MP is a compact design cellular modem based on GSM/GPRS/EDGE/UMTS/ HSDPA/HSUPA/HSPA+ networks. It offers the state-of-the-art 2G/3G connectivity for machine to machine (M2M) applications, providing users with reliable data transmission.
Its standards-compliant industrial designs are available to meet different industrial application needs. Moreover, M1000 MP embeds high-performance module, and supports a serial port and a high-speed USB interface.

Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since its establishment in 2010 in Guangzhou, China, Robustel has been focusing on designing and manufacturing industrial cellular routers, gateways, modems, cloud platforms and E2E solutions. In order to support global business in more than 100+ countries and regions, Robustel has set up local offices in Germany, Australia, the Netherlands, Japan and Hong Kong.
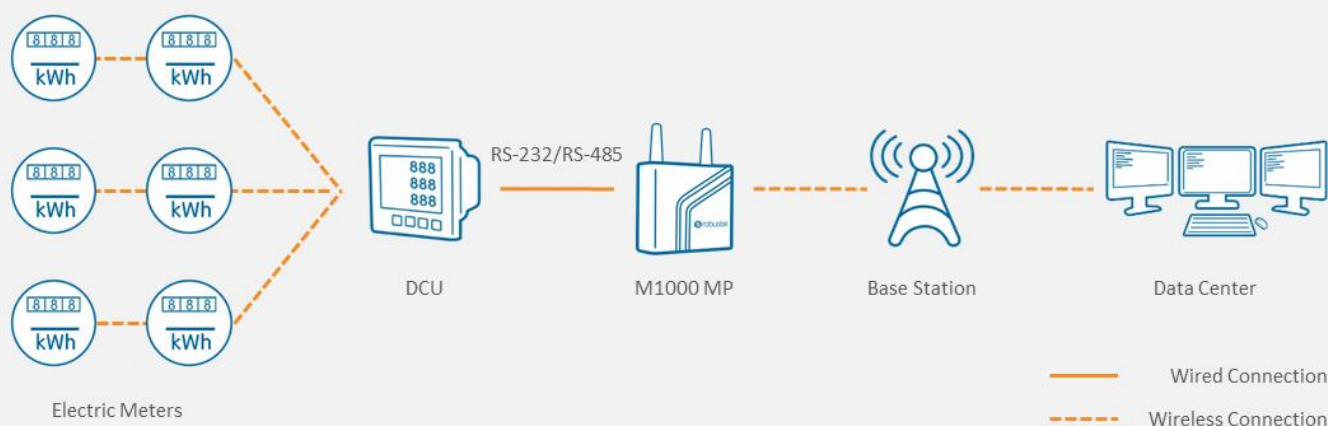
KEY FEATURES

- › Control via AT commands
  (Hayes 3GPP TS 27.007 and 27.005)
- › Connecting TCP/IP and sending SMS via AT commands
- › Supporting 1 x RS-232/RS-485
- › Supporting 1 x mini USB 2.0 high speed interface
- › -40 to +85 °C extended operating temperature
- › Robust industrial design (6 to 18V DC/6 to 26V DC, desktop or wall mounting or DIN rail mounting)

PACKAGE CONTENTS

- › 1 x Robustel M1000 MP Industrial Cellular Modem
- › 1 x 2-pin 3.5 mm male terminal block for power supply
- › 1 x *Quick Start Guide* with download link of other documents or tools

APPLICATION EXAMPLE

SPECIFICATIONS

Cellular Interface

Number of antennas	2 (MAIN + AUX) or 1 (MAIN) optional
Connector	SMA female
SIM	1 (3 V & 1.8 V)
Standards	GSM/GPRS/EDGE/UMTS/HSDPA/HSUPA/HSPA+

Serial Interface

Number of ports	1 x RS-232 or 1 x RS-485
Connector	DB9 female
Baud rate	1200 bps to 115200 bps
RS-232	RxD, TxD, RTS, CTS, GND
RS-485	Data+ (A), Data- (B)

USB Interface

Number of ports	1 x mini USB
Connector	Mini female
Speed	2.0 high speed up to 480 Mbit/s

Note: Only 3G models support data transmission via the USB interface.

Others

Reset button	1 x RST
LED indicators	1 x POWER + 1 x STATUS

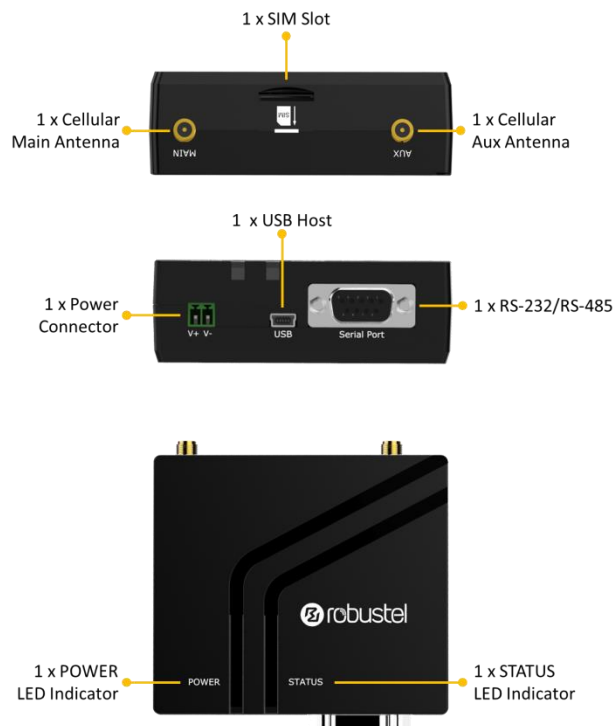## Power Supply and Consumption

Connector	2-pin 3.5 mm female socket
Input voltage	6 to 18V DC (for 2G model)
	6 to 26V DC (for 3G model)
Power consumption	Idle: 50 to 60 mA@12 V
	Data link: 100 to 200 mA (peak) @12 V

Physical Characteristics

Ingress protection	IP30
Housing & Wight	Plastic, 90 g
Dimensions	85 x 75 x 28.5 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting

Certifications

Approvals & Certificates	CE, RoHS, WEEE, EAC

ORDERING INFORMATION

Model	M1000-MP2GA	M1000-MP2GB	M1000-MP3HA	M1000-MP3PA
Modem Type	2G Modem	2G Modem	3G Modem	3G Modem
Antenna Number	1	1	1	2
Serial Port	1 x RS-232	1 x RS-232/RS-485	1 x RS-232	1 x RS-232
Mini USB Port	1	1	1	1
Input Voltage	6 to 18V DC	6 to 18V DC	6 to 26V DC	6 to 26V DC
Air Interface	GSM	GSM	GSM/GPRS/EDGE/UMTS/ HSDPA/HSUPA/HSPA+	GSM/GPRS/EDGE/HSDPA/ HSUPA/HSPA+
Frequency Bands* **3G**	--	--	B1, 2, 5, 8, 19	B1, 2, 5, 8
2G	850/900/1800/1900 MHz	850/900/1800/1900 MHz	850/900/1800/1900 MHz	850/900/1800/1900 MHz
Operating Environment	-40 to +85 °C 5 to 95% RH	-40 to +85 °C 5 to 95% RH	-40 to +85 °C 5 to 95% RH	-40 to +85 °C 5 to 95% RH

*For more information about frequency bands in different countries, please contact your Robustel sales representative.