



# M1000 MP

Industrial Cellular Modem

1 RS-232 + 1 USB Host



## INTRODUCTION

The Robustel Industrial Cellular Modem M1000 MP is a compact design cellular modem based on GSM/GPRS/EDGE/UMTS/HSPA+/LTE Cat 1 networks. It offers the state-of-the-art 2G/3G/4G 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, the UK, Japan and Hong Kong.

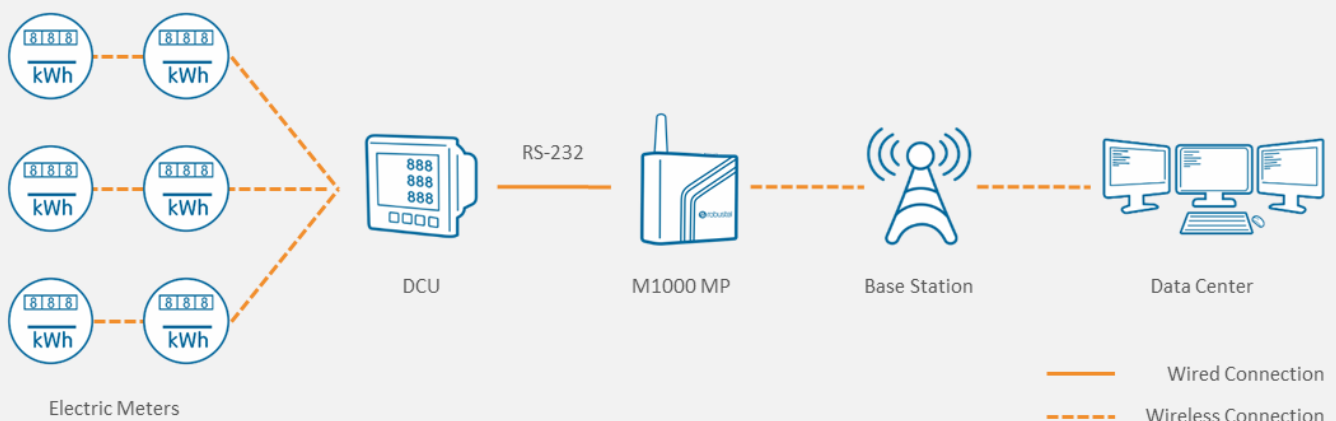
## KEY FEATURES

- > 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
- > Supporting 1 x mini USB 2.0 high speed interface
- > -40 to +85 °C extended operating temperature
- > Robust industrial design (6 to 36V 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	1 (MAIN)
Connector	SMA-K
SIM	1 (3 V & 1.8 V)
Standards	GSM/GPRS/EDGE/UMTS/HSDPA/HSUPA/HSPA+/LTE Cat 1

### Serial Interface

Number of ports	1 x RS-232
Connector	DB9 female
Baud rate	1200 bps to 115200 bps
RS-232	RxD, TxD, RTS, CTS, GND

### USB Interface

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

### Others

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

### Power Supply and Consumption

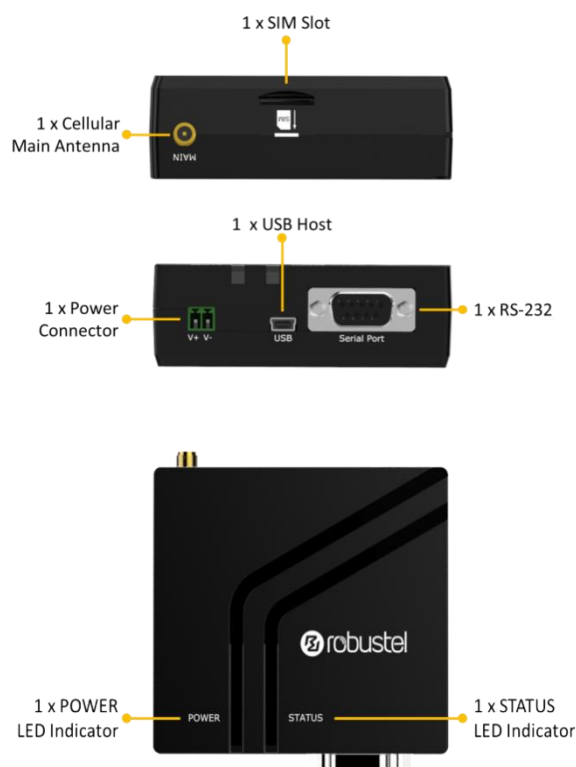
Connector	2-pin 3.5 mm female socket
Input voltage	6 to 36V DC
Power consumption	Idle: 50 to 60 mA@12 V Data link: 100 to 200 mA (peak) @12 V

### Physical Characteristics

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

### Approvals

Regulatory	CE, EAC
Environmental	RoHS2.0, WEEE



## ORDERING INFORMATION

Model	M1000-MP3PA	M1000-MP4LA
Modem Type	3G Modem	4G Modem
Antenna Number	1	1
Serial Port	1 x RS-232	1 x RS-232
Mini USB Port	1	1
Input Voltage	6 to 36V DC	6 to 36V DC
Air Interface	GSM/GPRS/EDGE/HSDPA/HSUPA	GSM/GPRS/UMTS/HSPA+/LTE Cat 1
Frequency Bands*	-	EMEA: B1/B3/B8/B20
<b>4G</b>		
<b>3G</b>	Global: B1/B2/B3/B5/B6	-
<b>2G</b>	Global: B2/B3/B5/B8	EMEA: B3/B8
Operating Temperature	-40 to +85 °C	-40 to +85 °C
Storage Temperature	-40 to +85 °C	-40 to +85 °C
Relative Humidity	5 to 95% RH	5 to 95% RH

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