

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.

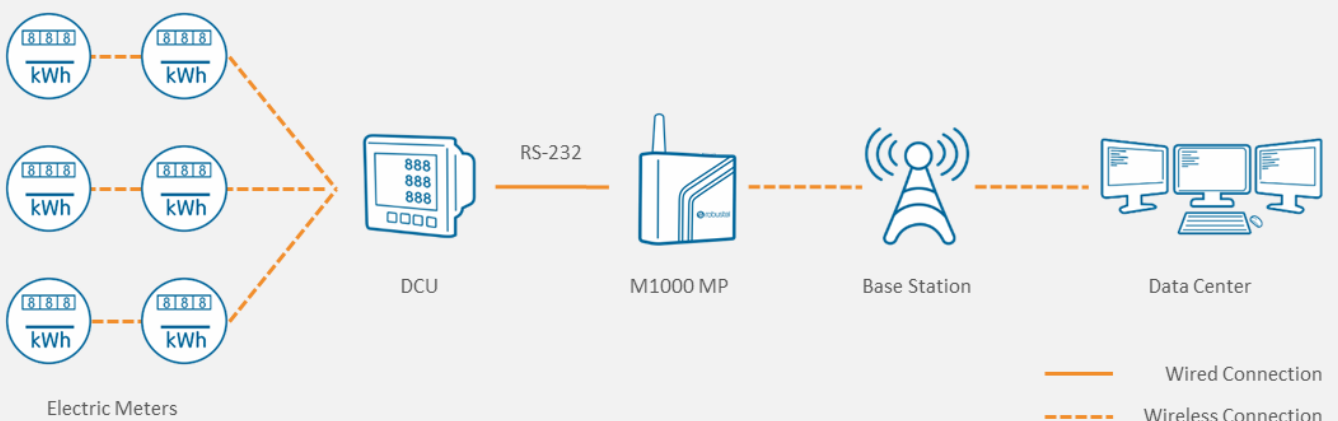
KEY FEATURES

- 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

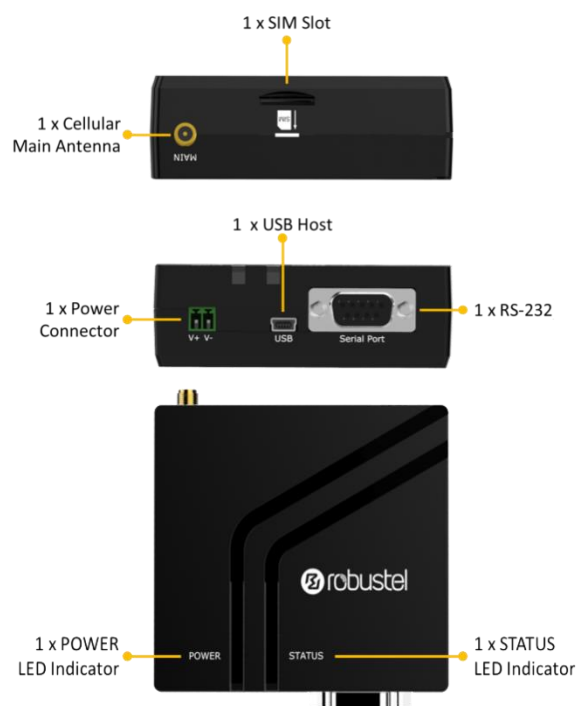
| | |
|----------------|------------------------|
| Reset button | 1 x RST |
| LED indicators | 1 x POWER + 1 x STATUS |

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 |



ORDERING INFORMATION

| Model | M1000-MP3PA | M1000-MP4LA |
|-----------------------|-------------------------------|------------------------------------|
| Part Number | B007409 | B007701 |
| Modem Type | 3G Modem | 4G Modem |
| Cellular Module | EHS6 | ELS61-E-R2 |
| 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/EDGE/UMTS/HSPA+/LTE Cat 1 |
| Frequency Bands* | | |
| 4G | - | B1/B3/B8/B20/B28 |
| 3G | B1/B2/B3/B5/B6 | B1/B8 |
| 2G | B2/B3/B5/B8 | 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 |
| Approvals | CE, EAC, RoHS2.0, WEEE, ICASA | CE, EAC, RoHS2.0, WEEE, ICASA |

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