



M1000 MP robustOS

Industrial Cellular Modem
1 RS232 + 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 famous 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 UK, and Hong Kong.

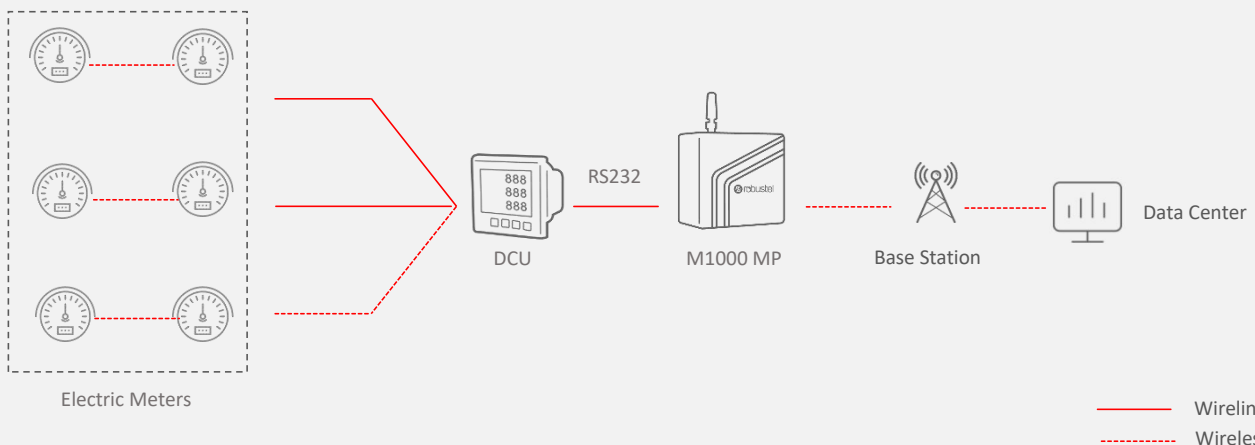
KEY FEATURES

- Control via AT commands (Hayes 3GPP TS 27.007 and 27.005)
- Connecting TCP/IP and sending SMS via AT commands
- Supporting 1 x RS232
- Supporting 1 x mini USB 2.0 high speed interface
- -40 ~ +85 °C extended operating temperature
- Robust industrial design (6 ~ 36 VDC, 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 x Mini SIM (2 FF)
Standards	GSM/GPRS/EDGE/UMTS/HSDPA/HSUPA/HSPA+/ LTE Cat 1

Serial Interface

Number of ports	1 x RS232
Connector	DB9 female
Baud rate	1200 bps ~ 115200 bps
Signal definition	RS232: 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 ~ 36 VDC
Power consumption	Idle: 50 ~ 60 mA@12 V Data link: 100 ~ 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
Operating temperature	-40 ~ +85°C
Storage temperature	-40 ~ + 85°C
Relative humidity	5 ~ 95%RH

Regulatory and Type Approvals

Environmental	RoHS 2.0, WEEE
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ORDERING INFORMATION

Model	PN	Modem Type	Cellular Module	Frequency Bands*	Country/Region	Certifications (*In progress)
M1000-MP3PA	B007409	3G Modem	EHS6	3G: B1/B2/B3/B5/B6 2G: B2/B3/B5/B8	Global	CE, EAC
M1000-MP4LA	B007701	4G Modem	ELS61-E-R2	4G: B1/B3/B8/B20/B28 3G: B1/B8 2G: B3/B8	EMEA	CE, ICASA, EAC

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