M1000 MP

Industrial Cellular Modem
1 x RS-232 + 1 x USB Host

INTRODUCTION

The Robustel Industrial Cellular Modem **M1000 MP** is a compact cellular modem designed for GSM/GPRS/EDGE/UMTS/HSPA+/LTE Cat 1 networks. It offers state-of-the-art 2G, 3G, and 4G connectivity for machine-to-machine (M2M) applications, ensuring reliable data transmission for users.

Its standards-compliant industrial design meets diverse application needs, while the M1000 MP incorporates a high-performance module and supports both a serial port and a high-speed USB port.

Robustel is a renowned global provider of industrial IoT/M2M hardware and solutions. Since its establishment in 2010 in Guangzhou, China, Robustel has focused on the design and manufacture of industrial cellular routers, gateways, modems, cloud platforms, and end-to-end solutions. To support global operations in over 100 countries and regions, Robustel has established local offices in Germany, Australia, the UK, and Hong Kong.
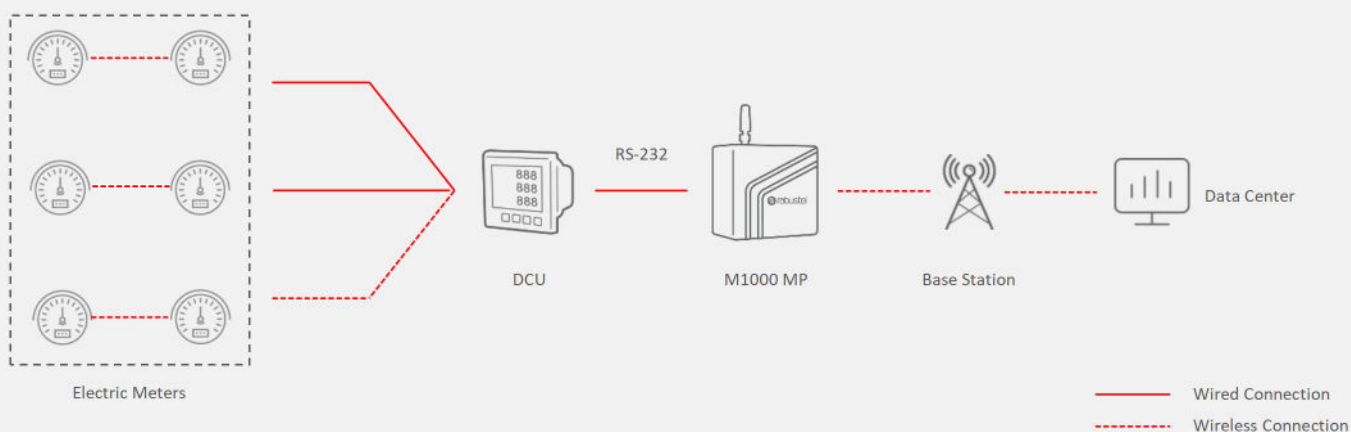
KEY FEATURES

➢ Control via AT commands (Hayes 3GPP TS 27.007 and 27.005)

➢ TCP/IP connectivity and SMS transmission through AT commands

➢ Supports 1 x RS-232 port

➢ Supports 1 x mini USB 2.0 high-speed port

➢ Robust industrial design accommodating 6 ~ 36 VDC, with options for desktop, wall, 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

Electric Meters — DCU — RS-232 — M1000 MP — Base Station — Data Center

Wired Connection
Wireless Connection

SPECIFICATIONS

Cellular Interface

Number of antennas	1 (MAIN)
Connector	SMA-K
SIM	1 x Mini SIM (2FF)
Standards	GSM/GPRS/EDGE/UMTS/HSDPA/HSUPA/HSPA+/ LTE Cat1

Serial Port

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

USB Port

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	12/24 V DC, 6 ~ 36 V DC
	Reverse polarity protection, surge protection
Power consumption	Idle: 1.0 W@12 V
	Max: 2.5 W@12 V
Recommended power supply	12 V DC/1.0 A power adapter

Physical Characteristics

Ingress protection	IP30
Housing & Weight	Plastic, 90 g
Dimensions	28.5 x 75 x 85 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting
Operating temperature	-20 ~ +70 °C
Storage temperature	-40 ~ +85 °C
Relative humidity	5 ~ 95% RH (non-condensing)

Regulatory and Type Approvals

Environmental	RoHS2.0, WEEE

ORDERING INFORMATION

Model	Order Code	Frequency Bands*	Country /Region	Certification	Package Contains
M1000-MP3PA	A000700703	3G: B1/B2/B3/B5/B6 2G: B2/B3/B5/B8	Global	CE EAC	1 x M1000 MP Modem (B Code: B007409)
M1000-MP4LA	A000700704	4G:B1/B3/B7/B8/B20/B28 2G: B3/B8	EMEA+SEA	CE RCM	1 x M1000 MP Modem (B Code: B007702)

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