

M100 Series Cellular Modem Datasheet



>>| Product Introduction

The M100 series cellular modem allows products to immediately offer the full benefits of GPRS technology, such as permanent online connections plus cost-efficient, high-speed data transmission. The EL-M100 GPRS Modem can be used with a wide range of applications.

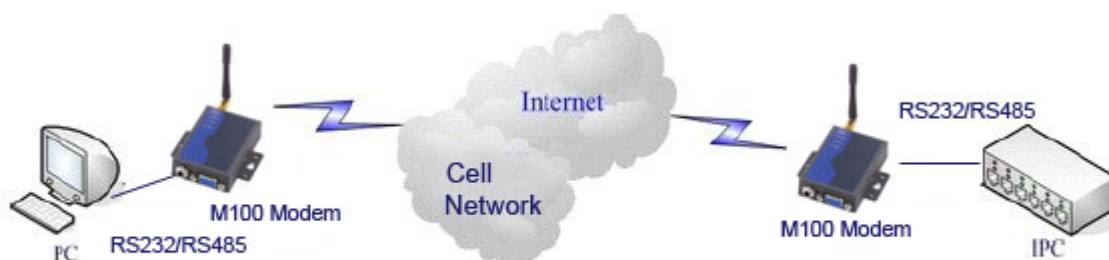
Just plug & play: Accelerate development and implementation by simply plugging the EL-M100 GPRS Modem into your products. It is backwards compatible with the EL-M100 GPRS Modem and offers additional features.

The ultra compact dual-band EL-M100 GPRS Modem has all the right industry standard interfaces for GPRS Class 8 data, voice, SMS and fax applications. It can be powered by a wide range of voltages. A built-in SIM card reader makes it easy to plug the EL-M100GPRS Modem into your application. It has full type approval according to R&TTE, GCF as well as approvals for E-marking

Please Note: The accessories, AC adapter, RS232 cable and GSM antenna will be required, along with a GSM/GPRS SIM card to operate and use the unit.

E-Lins' mobile data products are widely used in more than 50 countries and regions, and more than twenty industrial fields, such as power control, water schedule, traffic, oil field, weather forecast, environmental protection, street lamp control, post, bank and many other areas.

>>| Typical Diagram



>>| Application

- Remote Data Monitor and Control
- Water, gas and oil flow metering
- AMR (automatic meter reading)
- Power station monitoring and control
- Remote POS (point of sale) terminals
- Traffic signals monitor and control
- Fleet management
- Power distribution network supervision
- Central heating system supervision
- Weather station data transmission
- Hydrologic data acquisition
- Vending machine
- Traffic info guidance
- Parking meter and Taxi Monitor
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)

>>| Features

- Industrial design with intelligent software capabilities, making it a reliable cellular solution for data collection and transmission
- Plug-and-play design with easy-to-use software interface for easy integration
- Easily manage and control distributed remote devices over the air
- Built-in Watch Dog
- Remote Data Monitor and Control
- Reliable GSM/GPRS network connectivity, providing fast and cost-effective long-range wireless communication
- Easy-to-use
- Industrial design with surge protection
- No need to build expensive fixed line network, saving cost substantially

>>| Specification

Wireless	
Mobile Networks	GSM EDGE GSM GPRS

	CDMA1x
Cellular Frequency	Quad-band EGSM 850/900/1800/1900Mhz CDMA1x: 800/1900Mhz or 450Mhz optional
Data	
Data Speed	EDGE Downlink 384kbps Uplink 118 kbps GPRS Downlink 126 kbps Uplink 42.8 kbps CDMA1x Downlink/Uplink 153.6kbps
Interface	
Antenna	50Ω SMA female interface
Serial port	DB9(RS232) / RS485
Led	Power Ring Data
UIM/SIM	1.8V/3V
Power	
Power supply	DC7V-25V , typical DC9V1A
Power consumption	Peek:< 2.5mA@+9VDC Speech: 300mA@+9VDC Sleep: 3.5mA@+9VDC
Software	
Device Management	Support AT command
Dialup	Need machine/PC back platform to dialup
Physical	
Operating Temperature	Work temperature:-30℃ ~ 75℃ Storage temperature:-40℃ ~ 85℃
Humidity	95% Maximum (Non-condensing)

Dimensions	Item (L x B x H): 75mm x 50mm x 16mm (5.3" x 3.7" x 1.4") Packaging (L x B x H): 260mm x 190mm x 65mm (10.3" x 7.5" x 2.6")
Weight	Item: 200g Packaging:
Electromagnetic Compatibility	Anlistatig test: Class 3 Radio electromagnetism test: Class 3
Others	
Warranty	1 Year
Package Contents	The M100 Series Modem DB9 Serial Cable DC 9V1A Power Adapter Antenna CD-ROM with Product Documentation
Model	
M100gsm	GSM modem
M100g	GPRS modem
M100c	CDMA1x modem