

M400ev EVDO Modem Datasheet



>>| Product Introduction

The M400ev Cellular EVDO Modem is a complete wireless data modem providing global cellular network connectivity; where cellular signal available, with 3G/2G fallback capabilities for ensured access to the internet anywhere, providing RS232/RS485/USB port option.

The M400 is an easy to install productivity tool designed to provide maximum accessibility to the mobile professional allowing quick access to the internet for real-time business transactions, email, web browsing and more.

E-Lins' mobile data products are widely used in 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.

>>| Hot Spot

Built-in 2G/3G industrial cellular module, insert SIM/UIM card to work directly;

Built-in sim/uim card slot;

Broadband M2M communications

SIM failover/standby APN

Rapid service deployment applications

Support At command

RS232/RS485/USB/RJ45 port option

Option Features:

Voice Supported

Built-in TCP/IP Stack

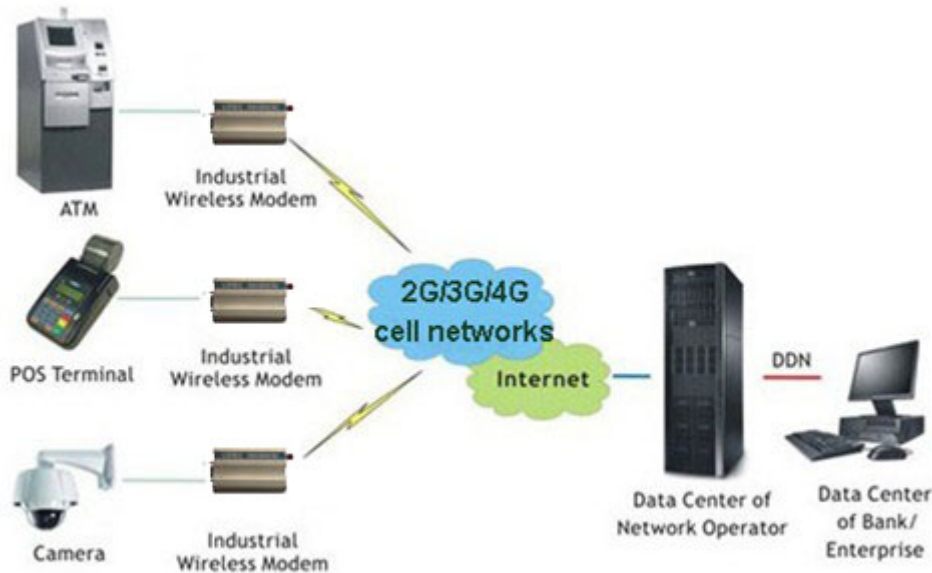
GPS

E-Lins Technology Co., Limited

Add: #901-902, Unit B, Jiayun Bld., Huada Rd., Dalang, Longhua, Shenzhen, 518000, China

Tel: +86-755-29230581 83700465 E-mail: sales@szelins.com www.szelins.com www.e-lins.com

>>| Typical Diagram



>>| Industrial Application

- Remote Data Monitor and Control
- CCTV, security surveillance
- Water, gas and oil flow metering and schedule
- AMR (automatic meter reading)
- Power station monitoring and control
- Remote POS (point of sale) terminals, ATM,
- Traffic signals monitor and control, Traffic info guidance
- Oil field, weather forecast, environmental protection, street lamp monitoring and control
- Early Warning of Mountain Torrent
- Fleet management
- Power distribution network supervision
- Central heating system supervision
- Weather station data transmission
- Hydrologic data acquisition
- Vending machine
- Telemetry, SCADA
- Vehicle logistics and diagnostics controlling
- Parking meter and Taxi Monitor
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)

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>>| Specification

Wireless	
Mobile Networks	CDMA1x CDMA2000 EVDO Rev 0 and Rev A
Cellular Frequency	CDMA1x/EVDO: 800/1900Mhz or 450Mhz optional
Data	
Bandwidth	CDMA1x Downlink/Uplink 153.6kbps CDMA2000 EVDO Rev A: 3.1Mbps downlink, 2.4Mbps uplink Rev O: 2.4Mbps downlink, 153.6kbps uplink
Interface	
Antenna	50Ω SMA female interface, external replaceable Version without GPS: 1 Unit Version with GPS: 2 Unit
Serial port	DB9 or DB15 (RS232/RS485 optional)
Led	Power indicator Data indicator
UIM/SIM	1.8V/3V
SIM card slot	Yes, one unit
USB	USB 2.0 female, Mini USB
GPS	Supported (For version support GPS only)
Voice port	Supported (For version support only)
Power	
Power supply	DC7V-36V, typical DC9V1A
Power consumption	Peak: 700mA@+9VDC

	Average: 85mA@+9VDC Idle: 30mA@+9VDC
Software	
OS	Windows; Mac OS; Linux; Other OS with hardware USB/RS232/RS485 port;
At command	Support at command; Packed with GUI software
TCP/IP Stack	Supported (For version support only)
Physical	
Operating Temperature	Work temperature: -30°C to 75°C Storage temperature: -40°C to 85°C
Humidity	95% Maximum (Non-condensing)
Dimensions	Item (L x B x H): 83mm*53mm*25mm Packaging (L x B x H): 260mm x 190mm x 65mm
Weight	Item: 180g Packaging: 1.6 lbs
Electromagnetic compatibility	anlistatig test: Class 3 Radio electromagnetism test: Class 3
Others	
Warranty	1 Year, can extend to 5 years
Model	Marks
M400gsm-DB9-RS232	GSM Modem, GSM 900/1800Mhz, DB9 por-RS232 port t; working under GSM networks
M400gsm-DB15-RS232	GSM Modem, GSM 900/1800Mhz, DB9 to DB15 RS232 port; working under GSM networks
M400gsm-USB	GSM Modem, GSM 900/1800Mhz, USB port working under GSM networks
M400g-DB9-RS232	GPRS Modem, GSM/GPRS 900/1800Mhz, DB9 RS232 port

	working under GSM/GPRS networks
M400g-DB9-RS485	GPRS Modem, GSM/GPRS 900/1800Mhz, DB9 RS485 port working under GSM/GPRS networks
M400g-DB15-RS232	GPRS Modem, GSM/GPRS 900/1800Mhz, DB9 to DB15 RS232 port working under GSM/GPRS networks
M400g-DB15-RS485	GPRS Modem, GSM/GPRS 900/1800Mhz, DB9 to DB15 RS485 port working under GSM/GPRS networks
M400g-DB9-RS232-t	GPRS Modem, GSM/GPRS 900/1800/1900Mhz, DB9 RS232 port working under GSM/GPRS networks
M400g-DB9-RS232-q	GPRS Modem, GSM/GPRS 850/900/1800/1900Mhz, DB9 RS232 port working under GSM/GPRS networks
M400g-USB-d	GPRS Modem, GSM/GPRS 900/1800Mhz, USB port working under GSM/GPRS networks
M400g-USB-q	GPRS Modem, GSM/GPRS 850/900/1800/1900Mhz, USB port working under GSM/GPRS networks
M400g-RJ45-d	GPRS Modem, GSM/GPRS 900/1800Mhz, RJ45 port working under GSM/GPRS networks
M400g-RJ45-q	GPRS Modem, GSM/GPRS 850/900/1800/1900Mhz, RJ45 port working under GSM/GPRS networks
M400e-DB9-RS232-d	EDGE Modem, GSM/GPRS/EDGE 900/1800Mhz, DB9-RS232 port; working under GSM/GPRS/EDGE networks
M400e-DB9-RS232-q	EDGE Modem, GSM/GPRS/EDGE 850/900/1800/1900Mhz, DB9-RS232 port; working under GSM/GPRS/EDGE networks
M400e-USB-d	EDGE Modem, GSM/GPRS/EDGE 900/1800Mhz, USB port; working under GSM/GPRS/EDGE networks
M400e-USB-q	EDGE Modem, GSM/GPRS/EDGE 850/900/1800/1900Mhz, USB port; working under GSM/GPRS/EDGE networks
M400c-DB9-RS232-s	CDMA Modem, CDMA 800Mhz, DB9-RS232 port; working under CDMA networks
M400c-DB9-RS232-d	CDMA Modem, CDMA 800/1900Mhz, DB9-RS232 port; working under CDMA networks
M400ev-DB9	3G CDMA2000 EVDO Modem, CDMA/EVDO 800/1900Mhz,

	DB9-RS232 port, USB port optional; working under CDMA/EVDO networks, voice port optional
M400d-DB9	3G WCDMA Modem, GSM/UMTS 850/900/1800/1900/2100Mhz, DB9-RS232 port, USB port optional; working under GSM/GPRS/EDGE/HSDPA networks, voice port optional
M400d-DB9-GPS	3G WCDMA Modem + GPS, GSM/UMTS 850/900/1800/1900/2100Mhz, DB9-RS232 port, USB port optional; working under GSM/GPRS/EDGE/HSDPA networks, voice port optional
M400u-DB9	3G WCDMA Modem, GSM/UMTS 850/900/1800/1900/2100Mhz, DB9-RS232 port, USB port optional; working under GSM/GPRS/EDGE/HSDPA/HSUPA/HSPA networks, voice port optional

Option Features:

- 1) GPS
- 2) Voice
- 3) TCP/IP stack

Notes: Please inform to sales while you make order if need the option features.

>>| Accessories

- The M400 Series Modem
- USB cable (For version support usb only)
- DC 9V1A Power Adapter
- Antenna
- CD-ROM with Product Documentation
- DB9 cable (For version support RS232/RS485 only)



DB15 to DB9 Cable



DB9 serial cable



RJ45 to DB9 Cable



USB Cable



EU Power Supplier



US Power Supplier



AU Power Supplier



Desktop Power Supplier
EU, US, AU, UK for choice



UK Power Supplier



Metal Mangetic-Mount W/ Cable



Rubber antenna



Rubber Mangetic-Mount W/ Cable



CD-Rom with Manual/Data

Notes:

- 1) We packed the units with free accessories; default packed depends on stock and the device's feature requirement. If you need specify the type, please inform us when you order.
- 2) Different places have different band and frequency. Signal quality affects the data speed. The antenna in the packages is free default. It's a world-wide use type. Our free antenna may not get good signal or good speed in your area. Please get the dedicated antenna for your area yourself to get the best signal and data speed.