

## M300 Series Cellular Modem Datasheet



### >>| Product Introduction

The M300 series Cellular Modem is a complete wireless USB data modem providing global cellular network connectivity, where cellular signal available, with 4G/3G/2G fallback capabilities for ensured access to the internet anywhere.

The M300 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 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.

### >>| Hot Spot

Broadband M2M communications

SIM failover/standby APN

3G/4G failover for fixed line broadband connections

Rapid service deployment applications

Support At command

USB port

### >>| Brief

#### **Broadband M2M Communications**

The product line provides a cost-effective broadband Machine-to-Machine (M2M) solution and supports the following radio access technologies: 4G LTE, HSPA+, HSPA, HSDPA, HSUPA UMTS, EDGE, GPRS, GSM, and

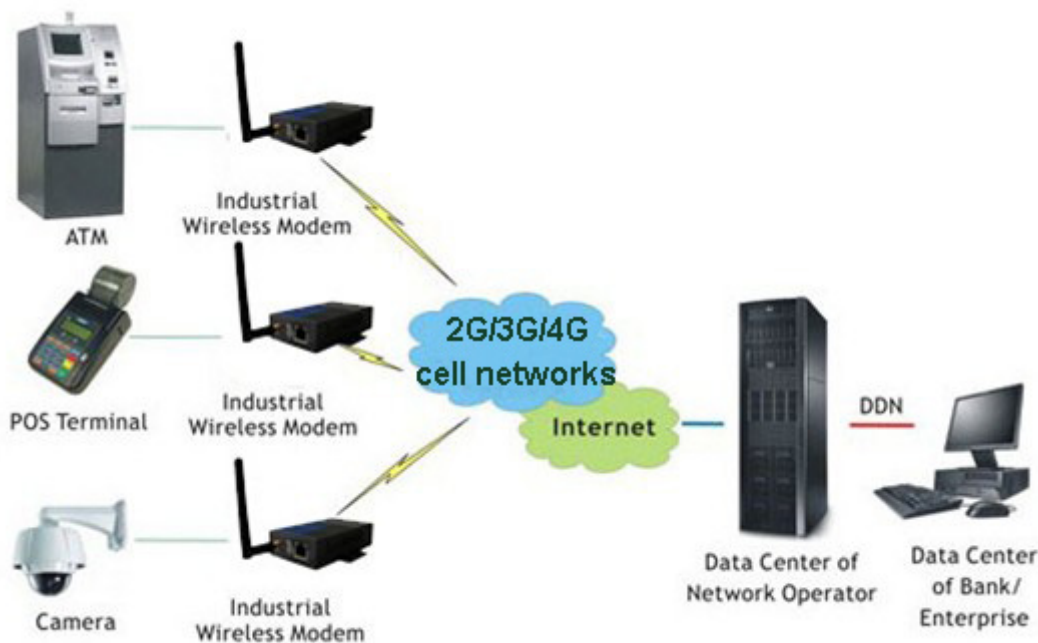
E-Lins Technology Co., Limited

Add: 1007A, MinTai Bld., Minkang Road, Minzhi Street, Bao'an District, ShenZhen, 518000, China  
Tel: +86 (755) 33231620 E-mail: sales@szelins.com sales@e-lins.com www.szelins.com

EVDO, CDMA1x.

The compact and rugged structure makes it a suitable product for deployments in M2M applications such as CCTV, ATM, telemetry, SCADA, retail (POS), digital signage, and intelligent traffic systems.

## >>| 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

E-Lins Technology Co., Limited

Add: 1007A, MinTai Bld., Minkang Road, Minzhi Street, Bao'an District, ShenZhen, 518000, China  
Tel: +86 (755) 33231620 E-mail: sales@szelins.com sales@e-lins.com www.szelins.com

- 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)

## >>| Features

### ■ Basic

- Auto install software
- Easy connection, directly to the PC or laptop by using a provided extension cable
- High speed with 4G LTE 100Mbps and back compatible to HSPA data (up to 14.4Mbps downlink and 5.76Mbps uplink) and backward compatible with EDGE/ GPRS/ GSM data connectivity (up to 216~384 Kbps)
- Visual feedback on connection status with the LED and the easy connection software, including signal strength indication
- Compatible with nearly all modern desktop and laptop PC's equipped with Microsoft OS (2000, XP, XP Pro and Vista)
- 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
- Real-time Clock (RTC)
- Remote Data Monitor and Control
- Reliable GSM/GPRS/EDGE/UMTS/HSPA network connectivity, providing fast and cost-effective long-range wireless communication
- Always-On-Line
- Easy-to-use
- Industrial design with surge protection
- Local and remote configuration over the air
- No need to build expensive fixed line network, saving cost substantially

### ■ EASY TO INSTALL AND USE

E-Lins Technology Co., Limited

Add: 1007A, MinTai Bld., Minkang Road, Minzhi Street, Bao'an District, ShenZhen, 518000, China  
Tel: +86 (755) 33231620 E-mail: sales@szelins.com sales@e-lins.com www.szelins.com

The M300 series Cellular Modem sets up in minutes, making it easy to use while on-the-go. Set up a wireless network with The M300 series Cellular Modem and provide your users with a secure, high-speed connection to the Internet virtually anywhere within a wireless broadband network.

## >>| Specification

Wireless	
<b>Mobile Networks</b>	<ul style="list-style-type: none"> <li>• UMTS WCDMA (HSUPA/HSDPA/HSPA/HSPA+)</li> <li>• GSM EDGE</li> <li>• GSM GPRS</li> <li>• CDMA1x</li> <li>• CDMA EVDO Rev 0 and Rev A</li> <li>• 4G LTE</li> </ul>
<b>Cellular Frequency</b>	<ul style="list-style-type: none"> <li>• UMTS/HSPA/HSUPA/HSPA/HSPA+ (WCDMA/FDD) 850/1900/2100 MHz or 850/900/1900/2100Mhz</li> <li>• Quad-band EGSM 850/900/1800/1900</li> <li>• CDMA1x/EVDO: 800/1900Mhz or 450Mhz optional</li> <li>• 4G LTE: 700(B17)/AWS or 800/900/1800/2100/2600MHz or 700(B13)MHZ</li> </ul>
Data	
<b>Bandwidth</b>	<ul style="list-style-type: none"> <li>• HSPA+ Downlink 21/42Mbps Uplink 5.76Mbps</li> <li>• HSPA Downlink 14.4Mbps Uplink 5.76Mbps</li> <li>• HSUPA Downlink 7.2Mbps Uplink 5.76Mbps</li> <li>• HSDPA Downlink 7.2 Mbps Uplink 384k bps</li> <li>• WCDMA/UMTS Downlink/Uplink 384 kbps</li> <li>• EDGE Downlink 236,8 kbps Uplink 118 kbps</li> <li>• GPRS</li> </ul>

	Downlink 85.6 kbps Uplink 42.8 kbps <ul style="list-style-type: none"> <li>CDMA1x Downlink/Uplink 153.6kbps</li> <li>CDMA EVDO Rev A: 3.1Mbps downlink, 2.4Mbps uplink Rev O: 2.4Mbps downlink, 153.6kbps uplink</li> <li>4G LTE Max. 100Mbps downlink, 50Mbps uplink</li> </ul>
<b>Interface</b>	
<b>Antenna</b>	50Ω SMA female interface, external
<b>Serial port</b>	DB9 (RS232/RS485 optional)
<b>Led</b>	Power indicator Data indicator
<b>UIM/SIM</b>	1.8V/3V
<b>USB</b>	USB 2.0 female
<b>Power</b>	
<b>Power supply</b>	DC7V-26V , typical DC9V1A
<b>Power consumption</b>	Peak: 700mA@+9VDC Average: 85mA@+9VDC Idle: 30mA@+9VDC
<b>Software</b>	
<b>OS</b>	Windows 7, Vista, XP, 2000 Mac OS Linux
<b>At command</b>	Support at command; Packed with GUI software
<b>Physical</b>	
<b>Operating Temperature</b>	Work temperature: -30°C to 80°C Storage temperature: -40°C to 90°C

<b>Humidity</b>	95% Maximum (Non-condensing)
<b>Dimensions</b>	Item (L x B x H): 93mm*70mm*23mm Packaging (L x B x H): 260mm x 190mm x 65mm (10.3" x 7.5" x 2.6")
<b>Weight</b>	Item: 400g Packaging: 1.6 lbs
<b>Electromagnetic compatibility</b>	anlistatig test: Class 3 Radio electromagnetism test: Class 3
<b>Others</b>	
<b>Warranty</b>	2 Year
<b>Package Contents</b>	<ul style="list-style-type: none"> <li>• The M300 Series Modem</li> <li>• USB cable</li> <li>• Power Adapter</li> <li>• Antenna</li> <li>• CD-ROM with Product Documentation</li> </ul>
<b>Model</b>	
<b>M300e</b>	EDGE Modem, USB port, working under EDGE/GPRS/GSM networks
<b>M300d</b>	HSDPA Modem, USB port, working under HSDPA/EDGE/GPRS/GSM networks
<b>M300u</b>	HSUPA Modem, USB port, working under HSUPA/HSDPA/EDGE/GPRS/GSM networks
<b>M300p</b>	HSPA Modem, USB port, working under HSPA/HSDPA/EDGE/GPRS/GSM networks
<b>M300p+</b>	HSPA+ Modem, USB port, working under HSPA+/HSPA/HSDPA/EDGE/GPRS/GSM networks
<b>M300t</b>	4G LTE Modem, USB port, working under 4G LTE and HSPA+/HSPA/HSDPA/EDGE/GPRS/GSM networks
<b>M300ev</b>	CDMA2000 EVDO Modem, USB port, working under EVDO/CDMA1x networks

## >>| Accessories

- The M300 Series Modem

E-Lins Technology Co., Limited

Add: 1007A, MinTai Bld., Minkang Road, Minzhi Street, Bao'an District, ShenZhen, 518000, China  
 Tel: +86 (755) 33231620 E-mail: sales@szelins.com sales@e-lins.com www.szelins.com

- USB cable
- Power Adapter
- Antenna
- CD-ROM with Product Documentation
- 



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

UK Power Supplier

EU, US, AU, UK for choice



Metal Magnetic-Mount W/ Cable

Rubber antenna

Rubber Magnetic-Mount W/ Cable

CD-Rom with Manual/Data

**Notes:**

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.