

M300t 4G LTE Modem Datasheet



>>| Product Introduction

The M300t 4G LTE 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 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/4G industrial cellular modules, insert SIM/UIM card to work directly;

Built-in SIM/UIM card slot;

Broadband M2M communications

SIM failover/standby APN

3G/4G failover for fixed line broadband connections

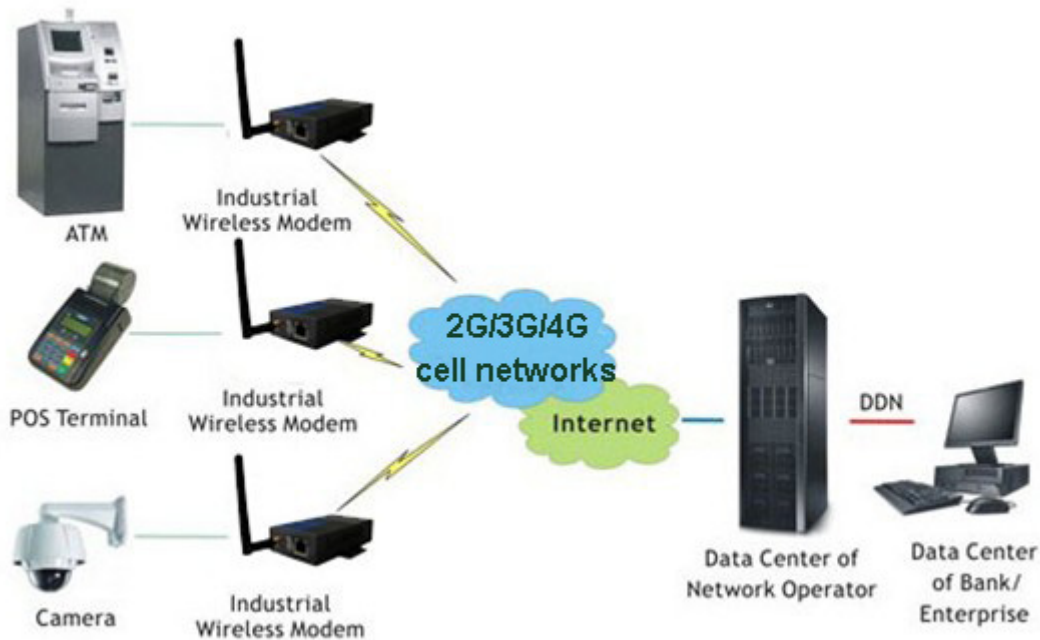
Rapid service deployment applications

Support At command

USB port

GPS support (option)

>>| 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

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- Parking meter and Taxi Monitor
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)

>>| Specification

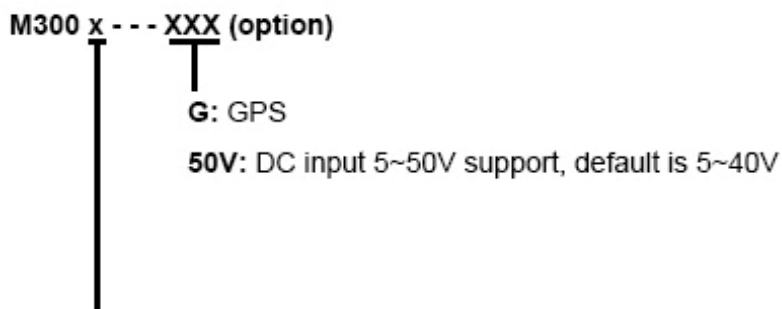
Wireless	
Mobile Networks	4G LTE (FDD/TDD) UMTS WCDMA (HSUPA/HSDPA/HSPA/HSPA+/DC-HSPA+) GSM EDGE/GPRS CDMA1x CDMA2000 EVDO Rev 0/Rev A/Rev B TD-SCDMA (TD-HSDPA/TD-HSUPA)
Cellular Frequency	4G LTE (FDD-LTE & TDD-LTE) 4G FDD LTE: Band 1--2100Mhz Band 2--1900Mhz Band 3--1800Mhz Band 4—AWS(1700/2100Mhz) Band 5--850Mhz Band 7--2600MHz Band 8--900Mhz Band 12--700Mhz Band 13--700(B13)Mhz Band 17--700(B17)/AWS Band 19—800Mhz Band 20--DD800Mhz Band 21 Band 25 –1900Mhz G Block Band 31– 450Mhz Other FDD band... 4G TDD LTE (TD-LTE): Band 41 – 2500/2600Mhz Band 40 -- 2300Mhz Band 39 – 1900Mhz Band 38 -- 2600Mhz Other TDD band...

	<p>UMTS/HSPA/HSUPA/HSPA/HSPA+/DC-HSPA+ (WCDMA/FDD) 850/1900/2100 MHz or 850/900/1900/2100Mhz/AWS optional Quad-band EGSM 850/900/1800/1900 CDMA1x/EVDO: 800/1900Mhz or 450Mhz optional</p> <p>3G TD-SCDMA: 2010~2025MHz/1880~1920MHz</p> <p>Notes: There are many different band and frequency for 4G LTE. Please confirm the detailed band and frequency with your carriers before order.</p>
Data	
Bandwidth	<p>4G LTE FDD LTE: 100Mbps or 150Mbps or 300Mbps downlink, 50Mbps uplink; TDD LTE: 150Mbps downlink, 50Mbps uplink;</p> <p>DC-HSPA+: Downlink 42Mbps, Uplink 5.76Mbps; HSPA+(H): Downlink 21Mbps, Uplink 5.76Mbps; HSPA+(L): Downlink 14.4Mbps, Uplink 5.76Mbps; HSUPA: Downlink 7.2Mbps, Uplink 5.76Mbps; HSDPA: Downlink 7.2 Mbps, Uplink 384k bps; WCDMA/UMTS: Downlink/Uplink 384 kbps;</p> <p>EDGE: Downlink 236,8 kbps, Uplink 118 kbps; GPRS: Downlink 85.6 kbps, Uplink 42.8 kbps;</p> <p>CDMA1x: Downlink/Uplink 153.6kbps; CDMA EVDO: Rev B: 14.7Mbps downlink, 5.4Mbps uplink Rev A: 3.1Mbps downlink, 2.4Mbps uplink Rev O: 2.4Mbps downlink, 153.6kbps uplink</p> <p>3G TD-SCDMA: 2.8Mbps</p> <p>Notes: the bandwidth is peak value. Real value depends on carrier network support.</p>
Interface	

Antenna	50Ω SMA female interface *3, external detachable; Antenna for Main Cell, MIMO Cell, GPS
Led	Power indicator Data indicator
UIM/SIM	1.8V/3V
USB	USB 2.0 female
Power	
Power supply	DC5V-40V , option is DC5V-50V, typical DC9V1A or 12V1A or 12V2A
Power consumption	Peak: 700mA@+9VDC Average: 85mA@+9VDC Idle: 30mA@+9VDC
Software	
OS	Windows; Mac OS; Linux; Other OS with USB port;
At command	Support at command; Packed with GUI software
Physical	
Operating Temperature	Work temperature: -30°C to 70°C option for -30°C to 80°C Storage temperature: -40°C to 85°C
Humidity	95% Maximum (Non-condensing)
Dimensions	Item (L x B x H): 87mm*50mm*23mm Packaging (L x B x H): 102*70*23mm PCBA: 84mm*48mm*20mm
Weight	150g (not including accessories and package)
Electromagnetic compatibility	anlistatig test: Class 3 Radio electromagnetism test: Class 3
Others	

Warranty	1 Year, can extend up to 5 years
Package Contents	The M300 Series Modem USB cable Power Adapter Antenna CD-ROM with Product Documentation

>>| M300 series model and types



t: 4G LTE version. Support FDD LTE or TDD LTE or FDD+TDD LTE, back compatible to 3G and 2G

w: 3G WCDMA HSPA version, support HSUPA/HSDPA/UMTS/EDGE/GPRS/GSM

p: 3G WCDMA HSPA+ version, support HSPA+/HSUPA/HSDPA/UMTS/EDGE/GPRS/GSM

eva: 3G CDMA2000 EVDO version, support EVDO RevA/EVDO Rev0/CDMA1x

evb: 3G CDMA2000 EVDO version, support EVDO RevB/EVDO RevA/EVDO Rev0/CDMA1x

td: 3G TD-SCDMA version, support TD-HSUPA/TD-HSDPA/TD-SCDMA/EDGE/GPRS/GSM

Notes:

1) option feature can be select one or all

2) for LTE version, please confirm your LTE band and Network Carrier with order to avoid wrong selection

Notes:

We name M300d HSDPA version and M300u HSUPA version both as M300w version.

>>| Accessories

- The M300 Series Modem
- 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:

- 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.
- 3) E-Lins has high gain antenna for option.