

## Comlink iModem LTE-M

Robust LTE-M modem for demanding applications built with reliability and simplicity in mind.

The iModem is a LTE Cat M-modem developed with reliability and simplicity in focus. The modem has both USB and RS232 ports. It has a robust aluminum casing which can be mounted either on a DIN-rail using clip accessories or the fastening wings. Unlike regular modems the iModem has built in intelligence to provide higher dependability as well as a verified, reliable installation.

### Enabled for additional features

Customized software features can be implemented on the powerful embedded platform. Features can be remotely updated and added.

The following features are implemented by default:

- Advanced cell monitoring features with recovery capabilities to improve overall uptime and reduce maintenance costs.
- Query signal strength via text message to verify an reliable installation
- Query enhanced cell information via text message, contains information on Cell ID, connection state etc.
- Signal strength indicator LED.
- Hardware watchdog ensures reliable operation.



CONNECTED BY

**COMLINK**

Comlink AB | +46 31 208600 | [info@comlink.se](mailto:info@comlink.se)  
Energigatan 10B, SE434 37 Kungsbacka, Sweden

## Future proof

LTE-M offers extended coverage in poor conditions and poor coverage areas, which is especially important for critical infrastructure applications, as devices frequently need to be installed in challenging reception environments.

Considering that LTE-M is included in the 4G and 5G framework that will last until at least 2040, it is the obvious choice of technology.

Convenient 'Over the Air' remote update capabilities of both modem firmware and added software features.

## SuperCap option (Last Gasp)

The iModem LTE-M is available in an SuperCap version. The SuperCap allows the modem to send an alarm as a text message to a predefined recipient when the power supply is lost. A different message can also be sent when the power supply is restored.

## NES DC1000 and DCN3000 version

iModem LTE-M can be ordered as a customized version for NES (Echelon) Data concentrators. Quick and secure installation with customized power connector and cable sets. Antenna alternatives can be supplied to suite all needs.

## Mounting options

The standard version of the iModem LTE-M has fastening wings for screw mounting. The NES version is delivered without wings. The casing can be fitted with plastic clips for DIN-rail mounting.



## Technical Information

### Power Supply

- Input voltage: 9-24 V AC or 9-28 V DC
- Power consumption, nom.: 30 mA at 24V DC
- Power consumption, max: 500 mA at 24V DC
- Temperature range in operation: -30 - +70°C

### Connections

- Power supply by pluggable screw terminal  
Cable area, max: 1.5 mm<sup>2</sup>
- USB Mini-B (can be powered via USB)
- Serial D-Sub RS232
- Antenna connector SMA

### Network

- LTE Cat M1/Cat NB2/EGPRS (BG95-M3)
- Global module, frequency bands:  
Cat M1: B1/2/3/4/5/8/12/13/18/19/20/  
25/26/27/28/66/85
- Maximum data rates of 588 kbps downlink  
and 1119 kbps uplink under LTE Cat M1
- Micro-SIM card reader

### The Unit

- Dimensions L x W x H: 72 x 69 x 26mm
- Weight: 76g
- Robust aluminium casing
- Installed using screws or DIN clips  
(ordered separately)

### Package Contains

- iModem LTE-M
- GSM/LTE Dipole antenna
- Pluggable 2-pin screw terminal block

### Accessories

- Various antenna options
- Power supply 24 V DC
- Antenna extension cable
- DIN clips