



Reliable modem

The iModem 3G is small, easy to install and reliable in industrial applications.

iModem 3G

The iModem is a GSM/2G/3G-modem developed with reliability and simplicity in focus. The modem has both USB and RS232 ports and is available in Standard and Echelon -versions. 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.

GSM/2G/3G

The modem handles data communication over GSM, GPRS and 3G at up to 7.2Mbps downstream and 5.7Mbps upstream, CSD is supported between 1,200 and 9,600bps. The modem is based on the reliable Cinterion EHS5 module which will operate in most countries, available in European and US- versions.

Benefits

- Takes advantage of the added coverage and speed of 3G with fallback available to 2G.
- Supports GPRS Class 12, up to twice as fast upload as older models. 86kbps upload speed compared to 43kbps in GPRS Class 10.
- Convenient 'Over The Air' remote update capabilities of both firmware and added Java™ features.
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Java™ enabled for additional features

Customized features can be implemented on the powerful Java™ 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.

SuperCap option

The iModem 3G 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.

Mounting options

The standard version of the iModem 3G has fastening wings for screw mounting. The Echelon version is delivered without wings. The casing can be fitted with plastic clips for DIN-rail mounting.

Technical information

General Features

- 3GPP Rel.7 Compliant Protocol Stack
- Dual-Band UMTS (WCDMA/FDD)
- EHS5-E: 900 and 2100 MHz
- EHS5-US: 850 and 1900 MHz
- Dual-Band GSM
- EHS5-E: 900 and 1800 MHz
- EHS5-US: 850 and 1900 MHz
- SIM Application Toolkit, Class 3
- Control via standardized and extended AT commands (Hayes, TS 27.007 and 27.005)
- TCP/IP stack access via AT command and transparent TCP services
- Secure Connection for client IP services
- Internet Services TCP/UDP server/client, DNS, Ping, FTP client, HTTP client

Electrical Characteristics

- Supply voltage range 9-28 V AC/DC, highly optimized for minimal power consumption
- Current consumption nom. at 12VDC: 20 mA

Specifications

- HSDPA Cat.8 / HSUPA Cat.6 data rates
DL: max. 7.2 Mbps, UL: max. 5.76 Mbps
- EDGE Class 12 data rates
DL: max. 237 kbps, UL: max. 237 kbps
- GPRS Class 12 data rates DL: max. 85.6 kbps,
UL: max. 85.6 kbps
- CSD data transmission 1.2 to 9.6 kbps,
V.110, non-transparent
- SMS text and PDU mode, cell broadcast
- Integrated TTY modem
- Dimension: 60 x 69 x 26 (incl. connectors),
72x69x26 (incl. wings) mm
- Weight: 82 g
- Operating Temperature: -30 °C to +85 °C

Special Features

- USB interface supports multiple composite mode and a Linux-/Mac- compliant mode
- Multiplexer according 3GPP TS 27.010

Possible Features

- Advanced troubleshooting capabilities via text messages, query cell info, reception, force 2G/3G etc.
- Power outage indication via text, IP or email.
- Password protection and/or Caller ID verification available on selected text commands.
- Hardware adaptation for additional features, e.g temperature monitoring, i/o:s etc.

JAVA™ Open Platform

- Java™ profile IMP-NG & CLDC 1.1 HI
- Secure data transmission with HTTPS/SSL
- Multi-Threading programming and Multi-Application execution
- 6 MB RAM and 8 MB Flash File System

Communication interfaces

- RS232 9-pole D-SUB Female 1,2 to 921,6 kbps
- 5 pin mini-B USB plug connector
2.0 High Speed 480Mbit/s

Mounting

- Mounting on DIN-rail using accessory clips or with screws using the fastening wings.

Available accessories

- Various antennas (standard FME connector)
- RS232/USB/IDC Cable
- 110/230V Adaptor
- DIN Clips



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