

# iTegno 39XX GPRS MODEM

Reliable Wireless Connectivity,  
Ready to Connect



## iTegno

Specially developed for industrial usage, iTegno 39XX GPRS modem is a robust modem that provides simple and seamless integration of telemetry and data control.

iTegno 39XX features a compact form factor and is also available in different interfaces to allow the flexible and easy integration into existing application infrastructures.

Built to withstand harsh and demanding environmental conditions, iTegno 39XX meets specifications IEC60068 for environmental testing and EN60529 for IP code protection, and extended temperatures of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ . The versatile modem offers options of embedding other RF technology like ZigBee in the same form factor.

## Key Specifications

Quad band for global coverage

Compliant to ETSI GSM Phase 2/2+ standards

Low power consumption

Integrated connectivity stacks

## Key Features & Benefits

- Reliable Performance – High RF sensitivity allows seamless and uninterrupted connectivity.
- Optimised for Industrial Usage - Ruggedized to suit field applications and extended lifetime requirements.
- Ease of Installation – Option of embedded antenna allows for easier and less costly installation.
- Multiple Interface Options – Broad range of interface options to provide seamless connectivity for different applications.

## iWOW Competitive Advantage

With enhanced features for robust and compact wireless capability, iTegno 39XX GPRS modem delivers rapid time to market and ease of integration for remote and automation applications at the lowest cost.

Discover more about the **iTegno GPRS Modem** at [www.iTegno.com](http://www.iTegno.com) or contact us at [sales@iTegno.com](mailto:sales@iTegno.com)

# Product Specifications

## Physical

Size : 90.0 x 50.0 x 20.0 mm
Weight : < 60 gram
Status-indicator LED
Lead Free : Yes
SIM Support : 3V/1.8V
Interface : RS-232 (DB9 / DB25) RJ-45 with customisable pin configuration Option of I/O connections
Antenna : Embedded/ External (SMA connector)
Protection : IP54/56 rating

## Features

Quad-band : GSM 850 / EGSM 900 / DCS 1800 / PCS 1900
Compliant to ETSI GSM Phase 2/2+ standard
GPRS Data Services : Downlink - up to 85.6 kbps Uplink - up to 42.8 kbps Multislot Class 10 Terminal Class B PBCCH, PCCCH support
Coding Schemes : CS1, CS2, CS3, CS4
Circuit Switch Data Service : up to 14.4 kbps
SMS service : Point-to-point (MO / MT) Text / PDU mode
User Interface : AT-commands (GSM 07.05, 07.07, and iWOW proprietary AT commands)
Integrated TCP/IP, UDP/IP and iCOMM stacks

## Electrical Interface

Power Supply : 5 - 32 V
Power Down Mode : < 50 uA
GSM Mode : 240 mA (average)
GPRS Mode : 420 mA (average)
Sleep Mode: <2.5 mA
Option of low transmit power mode

## Environmental

Operating temperature : -20 °C to +55 °C
Extended operating temperature : - 40 °C to +85 °C
Relative Humidity: 5% to 95% (non-condensing)

## Regulatory Approval / Standards

CE	R&TTE Directive 1999/5/EC
FCC	CFR Title 47, Part 15, 22 and 24
RoHS	2002/95/EC
Safety	EN60950
RF Exposure	EN50385
EMC	EN301 489-7
Radio Spectrum	EN301 511
SAR	EN50383/ EN50385
Environmental Testing	IEC60068
IP Codes	DIN EN 60529

## Order Options

iTegno 3932: DB9 port, open power termination
iTegno 3932-T25: DB25 port, open power termination
iTegno 3945: RJ-45 port with direct power pin - External / Embedded Antenna - Option of I/O connections