

# EC2G GPRS Modem



## Applications

- Access Control Systems
- Security Systems Monitoring
- Automatic Meter Reading
- Environmental monitoring
- Building Management Systems
- PLC Remote Management
- Vending Machine Management
- LED Signage control

## Product description..

The EC2G Modem is an industrial GSM/GPRS wireless device for remote monitoring (M2M) applications.

The EC2G includes all necessary functionality to automatically create outgoing, and accept incoming IP (over GPRS) & Circuit Switched Data (dial-up) connections.

Once configured the EC2G requires no intervention from a host system and operates autonomously as an intelligent gateway for the connected equipment.

The device is intended for high reliability remote monitoring applications, operating 24/7. It is designed for operation over the industrial temperature range with extremely low power consumption, suitable for battery and renewable-energy powered applications.

## Key features and benefits

- Supports incoming and outgoing connections over multiple bearers (GPRS or CSD)
- Fully autonomous operation – GPRS connect & re-connect with no AT commands required
- Automatically creates and accepts IP connections with no AT commands or programming required
- Additional features to support IP communications between legacy host systems designed for CSD modems
- Watchdog and activity monitor for high reliability
- Supports 'over-the-air' remote configuration and management (Telnet)
- Flexible, configurable serial RS232 interface
- Easy to configure, support for AT commands
- Multi-Colour LED indicator for signal strength and operational status.
- Very low power operation, remaining 'contactable'
- Wide range input voltage range - 5 to 24 Volts D.C.
- Industrial temperature range -30 to +70 °C operation

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## Specifications

### GSM Cellular Interface

Standards:	GSM/GPRS/SMS
GPRS:	Multi-slot class 10, Down-link: max. 85.6 kbps, Up-link: max. 42.8 kbps
Frequency:	EU 900/1800MHz. Support for USA 850/1900MHz optional
CSD:	Up to 14.4 kbps
Output Power:	1 Watt GSM1800/1900, 2 Watts EGSM 900/GSM 850
SIM interface:	Standard mini SIM / MIM: 3V & 1.8V interface
Antenna Interface:	SMA Female, 50 ohms impedance

### Serial Interface

Number of Ports:	1 x DB25 Female
Serial Standards:	RS232
ESD Protection:	15kV
Baud rate:	600bps to 115200bps
Flow Control:	RTS/CTS, or none

### Power Supply and Consumption

Power Supply Interface:	DC mini-jack socket or via DB25 interface connector
Input Voltage:	5 to 22 V. D.C. nominal
Power Consumption (typical values @ 12 V supply):	
- Normal (Idle / online, no communications):	<30mA
- Sleep mode (Idle / online, no communications):	<3.0mA
- Power Down mode (Radio off, Wake-on-UART):	<100µA
- Data Link Active:	200mA (peak)

### System

Dimensions :	24.1 x 56.4 x 60.4 mm
LED Indicators :	Multi-level RSSI & Status: (PWR, Connecting, Network, GPRS, COMMS, Sleep)
Watchdog and Connection activity monitoring	
Power Supply brown-out and Power-fail detect	
Transient protection and Isolation	

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