

WL-30 GSM Pod

WL-30 Pod adds powerful GSM monitoring and control technology to your product or assets in less space, for less integration time and at less cost

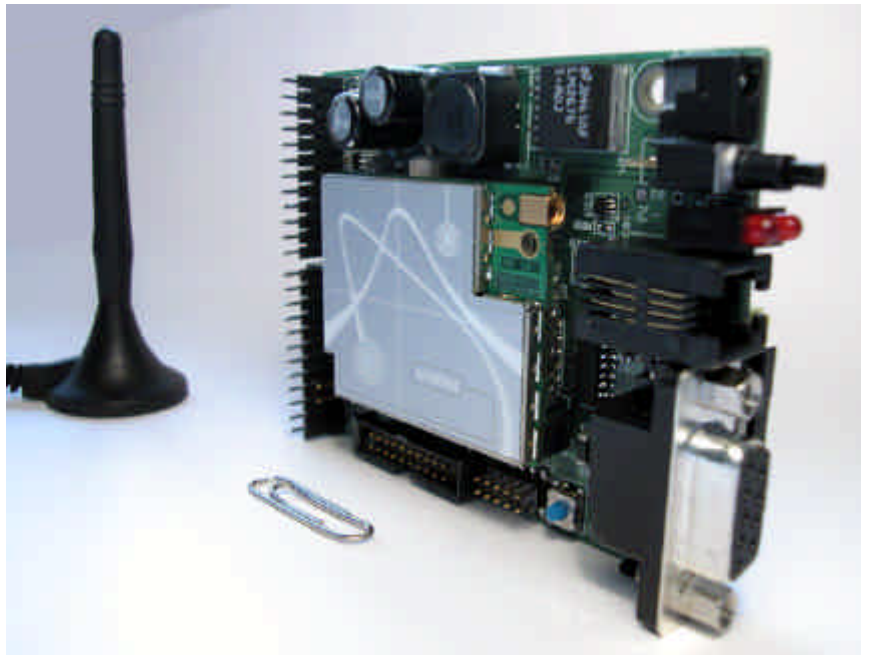
Using a powerful quad band GSM engine, the WL-30 GSM Pod incorporates all the parts that are necessary to enable you to have a meaningful conversation with your machines and appliances from a remote distance. With the WL-30 Pod, you are faster to market with less risk and expense. The WL-30 GSM Pod is designed for quick and easy integration into your products and assets such as security panels, control appliances and plant equipment to allow remote monitoring and control capability over the GSM network. The WL-30 Pod will especially appeal to System Integrators and Original Equipment Manufacturers who want to add wireless connectivity to their systems and products.

Technical Features

The WL-30 GSM Pod is a highly integrated unit that includes a modern quad band GSM engine and all the supporting circuitry such as switched mode power supply, SIM card connector, industrial strength I/O and interface connectors for external devices such as displays, PLC equipment and other serial based devices. All these features are packed into a small form factor, approximately 65 x 85mm. The Pod is designed for ease of mounting to suit many applications ranging from DIN rail enclosures to flat panel mounting and board to board connection.

The Pod can be programmed easily over a standard serial cable using the Configurator software. With this graphical computer program, you can set the WL-30 to various operating modes and download new applications. You can set up the Pod for M2M applications such as direct data communications to your own Company servers and the Internet via GPRS.

By using the User control mode in the Configurator software, you can be up and running very fast with standard I/O applications for remote sensing and control over the GSM network.



You can easily program the Pod with the alarm and control messages that need to be sent and received using SMS text messages and your mobile phone. A prepaid SIM card is sufficient for most applications.

Machine to Machine Applications

The WL-30 GSM Pod integrates a stand alone GSM engine which delivers excellent M2M capability in a small package size. The stand alone GSM engine introduces a set of technological advances which give you more scope for developing new applications and controlling your remote assets. These include an ARM9 based processor, Open AT operating system, C or Lua code development environment, remote application code downloading, multiple I/O capability as well as two serial interfaces for connecting external devices.

The WL-30 GSM Pod is ready to go

for your Telemetry applications using its multiple digital inputs and outputs minimizing the need for extra hardware in the remote device. The unit also integrates an optional 20 channel GPS receiver from uBlox for location based services.

The wide choice of wireless bearers supported by the WL-30 GSM Pod allows the choice of the most appropriate one for the application. The bearers include 3G, GPRS, EDGE, HSCSD, CSD and GSM. EDGE and 3G can provide increased data throughput for use in compressed video applications and MMS. With the WL-30 GSM Pod your application will be ready for evolving needs in the fast growing markets of M2M.

KEY FEATURES

- Small highly integrated GSM Pod (65x85mm)
- Ready-to-Go for simple SMS controlled I/O applications
- Direct interfacing to industrial equipment using robust I/O interfaces
- Optional integrated 20 channel GPS receiver
- External interfaces for Serial, Audio and PLC devices
- Quad band GSM engine which supports GSM/GPRS communications
- Easy setup of I/O and M2M parameters with Configurator software

TECHNICAL SPECIFICATIONS

GSM ENGINE

- Quad band GSM 900/1800/850/1900 MHz
- GSM + GPRS Class 10 Wireless bearers
- Integrated ARM9 processor and 16Mb Flash memory
- Integrated TCP/IP stack and Open AT OS
- Various interfaces such as serial, SPI and I2C
- Real Time clock support
- Rechargeable battery support

STANDARD PERIPHERALS

- 8 digital inputs
- 4 digital outputs
- RS232 Serial port
- Network Status Indications and Test function
- SIM Card Connector

OPTIONAL PERIPHERALS

- 20 channel GPS receiver
- Dual buffered analogue inputs
- TTL serial port
- RS485 2-wire port

SOFTWARE INTERFACES & DEVELOPMENT

SOFTWARE OPERATING MODES :

- Configurator Software (Windows)
- C or Lua code development using Eclipse IDE or M2M Studio
- AT Commands via Hyperterminal or external serial device

ELECTRICAL CHARACTERISTICS

<i>Input Power Consumption</i>	9-16V DC Input supply, 12V Nominal Standby average 30mA, GPRS max RMS 630mA, Peak 2A
<i>Serial</i>	3.3V/5V TTL, ESD protected. RS232.
<i>RF Power</i>	2W(max) in 900MHz, 1W in 1800MHz

PHYSICAL CHARACTERISTICS

<i>Size</i>	65 x 85mm and 15mm height
<i>Weight</i>	100g

Mechanical mounting options :

- 4 x 3 mm diameter mounting holes
- DIN Type-4 enclosure
- Flat base plate
- Board to board connection
- Cable to equipment connection

ENVIRONMENTAL SPECIFICATIONS

<i>Recommended Operating Temp</i>	0 ... +60 deg C
<i>Storage Temperature</i>	-10 ... +70 deg C
<i>Relative Humidity range</i>	5 ... 95% non-condensing
<i>Approvals</i>	CE and RoHS compliant

INTERFACE CHARACTERISTICS

<i>Digital In</i>	8 x isolated inputs for volt free contact or voltage ON threshold > 3.5V ... 16V
<i>Digital Out</i>	4 x low side mosfet drivers @ 40V/150mA
<i>Analogue In</i>	2 x buffered and protected inputs (10bit resolution) 1 x 0-5V input 1 x Thermistor sensor input
<i>Serial</i>	1 x serial RS232 port with handshaking (used for programming and external devices) 1 x TTL(3.3V or 5V) serial port with handshaking 1 x RS485 2-wire port
<i>External Power</i>	2.1 mm DC socket and via I/O Interface
<i>SIM Card</i>	Drawer style SIM card connector with card presence detector
<i>Test function</i>	Side operated push switch to activate one input
<i>Status</i>	1 x side mounted red LED for network status 1 x side mounted green LED for I/O status
<i>Antenna</i>	SMA connector on Pod or UFL cable connection MMCX connector (GPS)

ORDERING INFORMATION & ACCESSORIES

Basic Pod

8 inputs, 4 outputs, Serial Port RS232, Test switch, Status LED, base plate or DIN enclosure
[Order Code: WL-30S]

Other Options

Analogue Inputs, GPS receiver, RS485 interface

Accessories

External GSM/GPS antennae, base plate, 12V Power Supply, interface cables

* Please visit our website www.watchlinkgsm.com for more information on products, accessories & applications.

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