



# eDmod300

# M2M GPRS Module

The eDmod300 is a complete, ready-to-integrate and easy-to-use GSM/GPRS module that comes with a powerful TCP/IP stack, and all in a compact form factor that makes it suitable for inclusion in a large range of appliances.

The eDmod300 is optimised to provide a reliable and price competitive solution for wireless M2M projects. Including all the software and hardware components needed to transfer information over GPRS, the eDmod300's integration process does not require a big investment and offers a short time-to-market option for connecting devices wirelessly.

## ▶ Ready-to-Integrate ▶ Embedded TCP/IP ▶ Compact Module

Based on successful field-proven GPRS modules, the eDmod300 embeds the award-winning eDevice TCP/IP stack, "packaging" eDevice's expertise in connecting and managing large groups of connected devices.

Permanent access to GPRS networks at speeds up to 85.6 kbps. Also features GSM voice, data and SMS services.

### GPRS Modem



GSM/GPRS Networks

Direct access to Internet resources for FTP file transfer, email exchange or remote control through AT# interface.

### TCP/IP Stack

User specific software modules can be embedded on the eDmod for immediate customization.

### Tiny OS



Pin-compatible with eDmod modules for LAN and PSTN/POTS



### Universal Format

The socket modem connectivity is compatible with other eDevice modules allowing a device to support different networks.

### SIM Card Reader

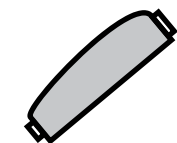
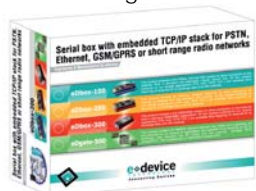
The SIM Card providing GPRS subscription is inserted under the module. An external SIM card holder can also be used.

### Power Supply

Designed to cope with peak power consumption during GSM emission. Eliminating power design considerations for OEM.

The eDkit300 includes all the components required to fully test and evaluate the eDmod300:

#### eDkit Package Content



1 eDbox based on eDmod300



1 GPRS Antenna



DB9 & USB Cables & Adapters, Power Supply



Documentation Hotline Access



# eDmod300

# M2M GPRS Module

## ▶ Hardware

- ◆ Serial connection up to 115.2Kbps to host equipment (TTL 3V3 or RS232)
- ◆ Standard Antenna Connector (MMCX or FME)
- ◆ External or Internal SIM Card Holder
- ◆ Power Supply 5V, Power Use 260mA nominal / 1A maximum
- ◆ Operating Environment: -20°C to + 55°C

## ▶ GSM/GPRS

- ◆ Dual Band GSM 900/1800MHz or EGSM 850/1900 MHz
- ◆ V32bis, V42, V42bis for 14.4kbps data transmission over GSM
- ◆ GPRS Multislot Class 10, Class B
- ◆ AT-Command Set ETSI 07.05 & 07.07
- ◆ SMS Services, Fax and Voice Support
- ◆ PPP Client/Server for GSM Data Connection to ISP

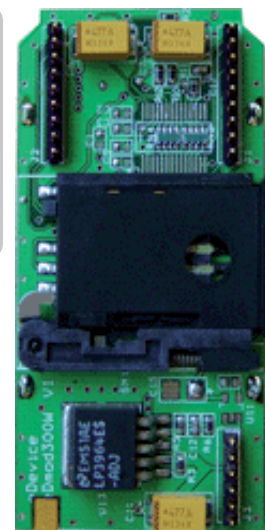
## ▶ TCP/IP

- ◆ In-house RFC Compliant TCP/IP stack driven by standard eDevice AT # interface
- ◆ TCP Socket Client and Server for Telnet connections
- ◆ SMTP and POP3 Client for email transfer
- ◆ FTP Client for File Transfer
- ◆ Dynamic Embedded HTTP Web Server

The eDmod300 is IDeMS-certified, allowing connectivity to IDeMS, eDevice's Middleware Server, to benefit from advanced Fleet Management Services and from GPRS-specific Network Services, eliminating certain network limitations and decreasing the cost of communications (e.g. private IP addressing).



RST 9  
NC 8  
GND 7  
NC 6  
SIMVCC 5  
GSMLED 4  
SIMDATA 3  
SIMRST 2  
SIMCLK 1



9 RTS  
8 RXT  
7 TXD  
6 RI  
5 DSR  
4 CTS  
3 DCD  
2 DTR  
1 GND

1 NC  
2 NC  
3 PWR  
4 MIC  
5 GND  
6 SPKR