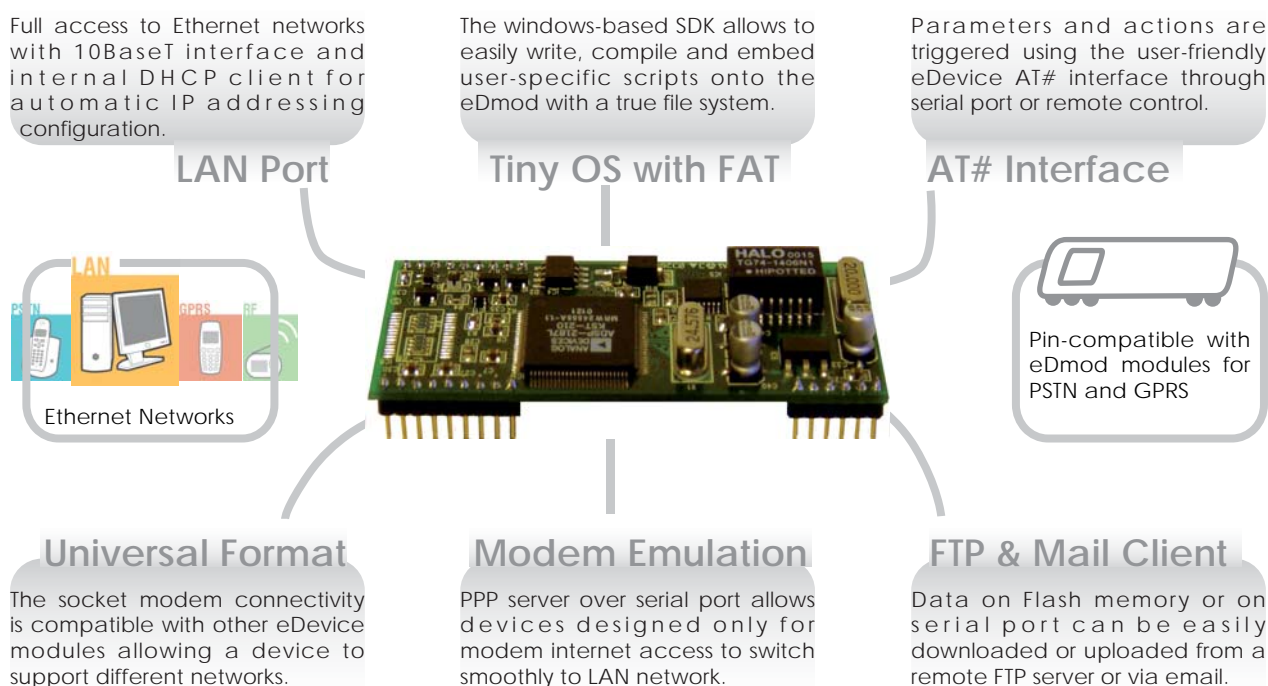# eDmod200   M2M LAN Module

The eDmod200 is a complete, ready-to-integrate and easy-to-use Ethernet 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.
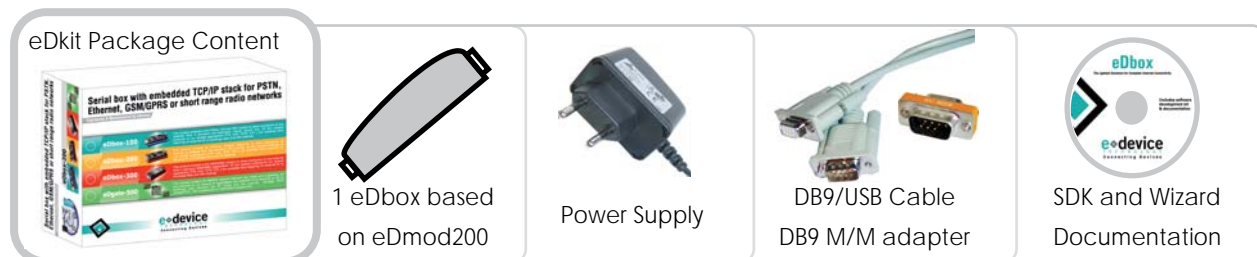
The eDmod200 is optimised to provide a reliable and price competitive solution for LAN M2M projects. Including all the software and hardware components needed to transfer information over Ethernet networks, the eDmod200's integration process does not require a big investment and offers a short time-to-market option for connecting devices.

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

Based on standard off-the-shelf components like a 16-bit DSP, the eDmod200 embeds the award-winning eDevice TCP/IP stack, "packaging" eDevice's expertise in connecting and managing large groups of connected devices.

Full access to Ethernet networks with 10BaseT interface and internal DHCP client for automatic IP addressing configuration.

The windows-based SDK allows to easily write, compile and embed user-specific scripts onto the eDmod with a true file system.

Parameters and actions are triggered using the user-friendly eDevice AT# interface through serial port or remote control.

LAN Port   Tiny OS with FAT   AT# Interface

Ethernet Networks

Pin-compatible with eDmod modules for PSTN and GPRS

Universal Format   Modem Emulation   FTP & Mail Client

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

PPP server over serial port allows devices designed only for modem internet access to switch smoothly to LAN network.

Data on Flash memory or on serial port can be easily downloaded or uploaded from a remote FTP server or via email.

The eDkit200 includes all the components required to fully test and evaluate the eDmod200:

eDkit Package Content

1 eDbox based on eDmod200	Power Supply	DB9/USB Cable DB9 M/M adapter	SDK and Wizard Documentation

e◆device
T E C H N O L O G Y
Connecting Devices

eDmod200 M2M LAN Module

▶ Hardware

◆ 2185 Analog Devices 16 bit DSP

◆ File Allocation Table on 8 Mbit Flash Memory

◆ Operating system with interpreted script language for software customisation

◆ Serial connection up to 230Kbps to host equipment (TTL 3V3 or RS232)

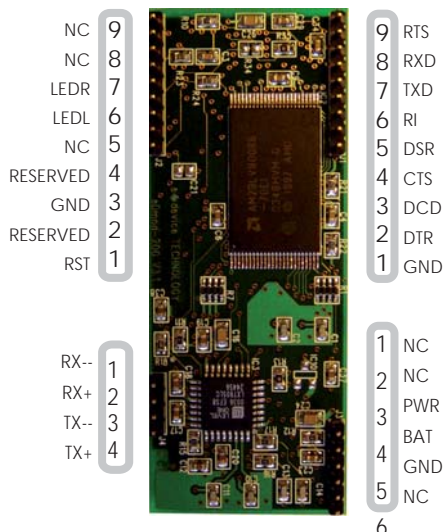◆ Power Supply 5V, Power Use 120mA

◆ Operating Environment: 0°C to + 45°C

▶ Ethernet

◆ 10BaseT Interface

◆ DHCP client for automatic configuration or static IP addressing

◆ ARP-ping mechanism & RARP server for first static IP addressing through network port (with configuration Wizard)

◆ In-house RFC compliant TCP/IP stack driven with standard eDevice AT# interface for commands and parameters

▶ TCP/IP

◆ DNS and NTP Client

◆ TCP Socket Client and Server for Telnet connections

◆ SMTP and POP3 Client for email transfer

◆ FTP Client for File Transfer from or to a remote FTP server

◆ Dynamic embedded HTTP Web Server: custom pages are stored in the memory and are dynamically updated with real-time values upon browsing

The eDmod200 is IDeMS-certified, allowing connectivity to IDeMS, eDevice Middleware Server, to benefit from advanced Fleet Management Services and from LAN-specific Network Services, eliminating certain network limitations (e.g. private and dynamic IP addressing).

I DeM S
Intelligent Device Management System

NC — 9	9 — RTS
NC — 8	8 — RXD
LEDR — 7	7 — TXD
LEDL — 6	6 — RI
NC — 5	5 — DSR
RESERVED — 4	4 — CTS
GND — 3	3 — DCD
RESERVED — 2	2 — DTR
RST — 1	1 — GND

RX-- — 1	1 — NC	
RX+ — 2	2 — NC	
TX-- — 3	3 — PWR	
TX+ — 4	4 — BAT	
	5 — GND	
	6 — NC	

65 MM

27 MM

10 MM

Model ⇩	Speed ⇩	Level ⇩
eDmod200	10BaseT	RS232
eDmod200T	10BaseT	TTL
eDmod220	PPP over Serial	

e◆device
T E C H N O L O G Y
Connecting Devices

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