e◆device
T E C H N O L O G Y
C o n n e c t i n g   D e v i c e s

eDconv Plug&Play Serial/IP Gateway

eDevice 's eDconv product range enables the connection of any device equipped with a serial port to a TCP/IP network such as the Internet. Once the eDconv is connected to your device in the field, the device may be remotely managed from a computer connected to the Internet. No software or hardware modification is usually required on the device side or on the remote workstation.

PSTN **LAN** **GPRS**

PSTN, GSM/GPRS and LAN networks support
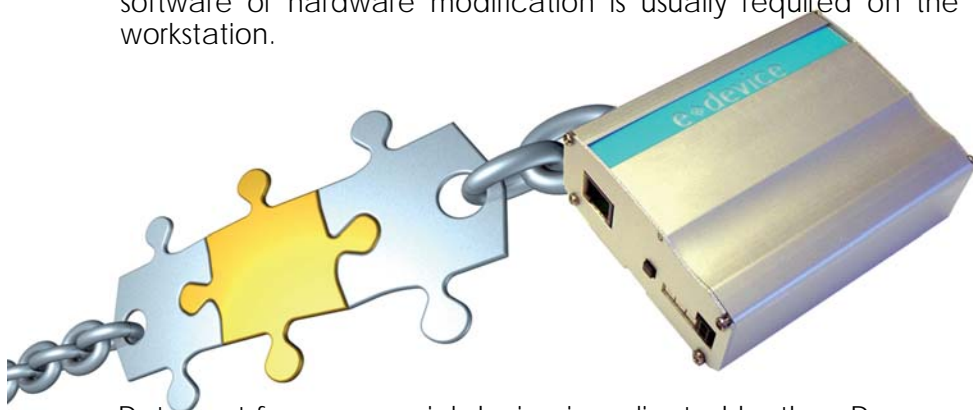
Data sent from your serial device is replicated by the eDconv on a PC with an IP address. From the PC an operator can have a remote dialog with the equipment as if it were a local serial connection.

The eDconv product allows the user to add easily and instantly powerful connectivity functionality to serial devices at a very minimal cost and low overall investment. This solution is the result of eDevice's experience in developing best-of-breed low-cost data communication solutions.

Cost Effective

Fast time to market, ease of integration, and no hidden costs, guarantees the most cost-effective solution of its kind.
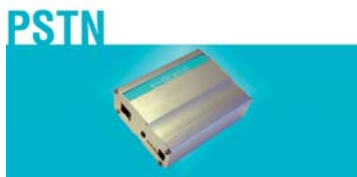
Profitable

Elimination of walk-up maintenance and overall enhancement of field support, results in a fast and durable ROI.

Flexible

Availability on a range of communication networks, eliminates physical networking constraints.

eDconv 100
serial2PSTN converter

PSTN

eDconv 200
serial2LAN converter

LAN

eDconv 300
serial2GPRS converter

GSM/GPRS

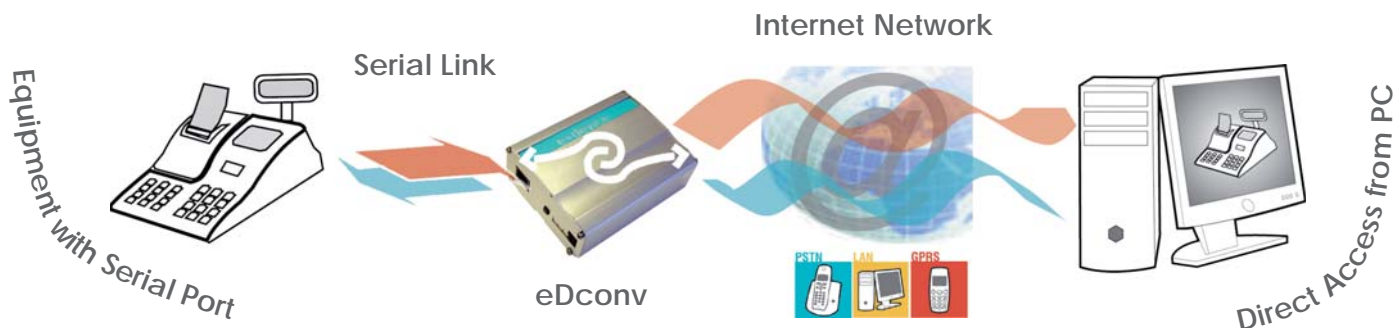| Analogue Telephone Networks	Ethernet Networks	Cellular Mobile Networks
The eDconv100 does not require a dedicated PSTN line and can be connected to an existing line sharing other telephone equipment. The eDconv100 includes a V.90 modem, a PPP client, and a standard TCP/IP stack. The eDconv100 connects to the Internet periodically or upon reception of an authorised incoming call (call back function / caller ID, etc.)	The eDconv200 connects to a 10 Mbit Ethernet port just like a PC would (RJ45 connector). The eDconv200 includes a DHCP client and a standard TCP/IP stack. The eDconv200 connects to the Internet as soon as authorisation is received over the LAN. The eDconv200 provides a permanent and immediate Internet access to the serial port of your equipment.	The eDconv300 uses a dedicated GPRS subscription and is activated as soon as the SIM card is inserted. The eDconv300 includes a class 10 GPRS modem and a standard TCP/IP stack. The eDconv300 connects to the Internet as soon as the GPRS network provides access. The eDconv300 provides a permanent wireless Internet access to your equipment.

eDevice
TECHNOLOGY
Connecting Devices

Access your RS232 Device Over the Internet

eDconv Plug&Play Serial/IP Gateway

Internet Network

Serial Link

Equipment with Serial Port

eDconv

PSTN   LAN   GPRS

Direct Access from PC

▶ Installation

The eDconv has been designed for installation and operation by non-technical people. Installation is fast and cheap as it does not require any expertise.

The primo configuration of the eDconv is performed over a standard PC serial port. The included configuration wizard software helps to set-up all required parameters for operation. The installation stages are described in the included set-up documentation.

The set-up configuration is stored in the internal memory of the eDconv.

The wizard can operate remotely over the Internet. The eDconv200 may also have its primo configuration set-up remotely over the local Ethernet, which simplifies the process further.

▶ Connection

The eDconv is connected to the equipment's serial port using the DB9/DB9 male adaptor provided. Communication over the serial port can be with or without flow control and at speeds of up to 230 kbps.

Once the Internet connection has been established, a TCP session is opened with a remote PC. Data flowing either way is converted by the eDconv over the TCP session.

To deal with the constraints of dynamic and private IP addresses the TCP session may be established by either the eDconv or the remote PC (client, server, client/server). The eDconv submits its current IP address each time it changes to the email address of your choice.

eDevice's IDeMS Middleware Server solves the challenges relating to IP networking (eg. dynamic and private IP addressing, session "keep-alives"...) .

▶ Operation

Communication with the equipment connected to the eDconv may occur from any authorised PC connected to the Internet. A single PC may be utilised for communication to multiple devices in the field.

Operation of the equipment may be performed using standard software (such as HyperTerminal or another telnet client).

The included TCP/Serial Bridge PC software from eDevice allows you to continue using your existing software to communicate with your equipment in the field. The TCP/Serial Bridge creates a virtual COM port (translated into an IP address) with one or multiple remote eDconv units.

Thus there is no need to rewrite your software or purchase new IP-capable software to replace point-to-point serial connection with a remote TCP/IP connection or install a new TCP/IP connection.

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eDconv Package Content
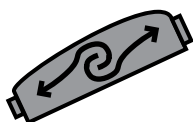
1 eDconv box

Wizard Software & TCP Serial Bridge

DB9, USB Cable & Adapter Antenna & Power Supply

Documentation

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eDevice
TECHNOLOGY
Connecting Devices

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