

DS100 Serial Device Server

Introduction

The DS100 is a **Serial Device Server** that externally connects any existing serial device to the Ethernet (TCP/IP) network. The DS100 is based on the [EM100 Ethernet Module](#), features a compact and stylish design, and is supplied in two versions: DS100R with RS232 serial port and DS100B with universal RS232/422/485 serial port.



Hardware Features

- Externally connects your serial device to the Ethernet (TCP/IP) network
- Stylish and compact, dimensions only 89x51x30 mm
- Features a 10BaseT Ethernet port
- Two serial port versions: DS100R with RS232 i/f (RX, TS, RTS, CTS) and DS100B with RS232/422/485 i/f (RX, TS, RTS, CTS, DTR, DSR in the RS232 mode)
- Internal EEPROM to store functioning parameters (Settings)
- Internal firmware can be upgraded through the serial and Ethernet ports
- Power requirements: 12V DC, app. 80mA
- Supplied with [Device Server Toolkit \(R3\)](#) software for *Windows*
- CE and FCC-approved
- Based on the [EM100 Ethernet Module](#)

Firmware Features*

- Supports UDP, TCP, APR, ICMP (ping), and DHCP protocols
- Transparently routes the data between Ethernet and serial ports
- Numerous user-definable parameters (Settings) to fine-tune Device operation
- Settings can be edited through the serial port or via the network
- Over-the-network configuration of IP-address
- Plus many other new features introduced in the [Release3 firmware...](#)

**These features are actually delivered by the [application firmware](#) loaded into the DS100*

Applications

The DS100 can be used to network-enable practically any serial device, such as...

- Data collection & security terminals:
 - Access Control Terminals
 - Security Devices
 - Time Recorders
 - Warehouse Terminals
 - Shop floor automation Terminals
- Remote Sensors & Meters:
 - Power monitors
 - Power meters
 - Environmental monitors
 - Temperature monitors
 - Data loggers
- Auto-ID Scanners:
 - Barcode Scanners
 - Magnetic Card Readers
 - RFID Readers
- Electronic Signboards
- PC-less entry systems
- Low-cost educational systems
- Vending Machines
- POS Systems
- Laboratory instruments
- Serial printers
- PBX Stations
- and many, many others..

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