



Model DE-304

**Models: DE-301, DE-302, DE-304,  
DE-332, DE-334**

**Easy-to Use Industrial  
Ethernet to Serial Servers  
For Distributed Applications €**

Models DE-301, DE-302, DE-304, DE-332 and DE-334 are industrial-strength, network-based serial device servers for connecting serial devices, such as CNCs, PLCs, weight scales, and scanners, directly to a 10/100 Mbps Ethernet network running TCP/IP. Models DE-301, DE-302 and DE-304 support RS-232 communications. Models DE-332 and DE-334 support RS-422/485 communications.

These device servers have an LCD interface for displaying configuration parameters. These include buttons for inputting data or for selecting the mode. They allow easy setup of the server, such as IP addresses, net mask, and gateway address. They can also monitor server status and data transmission, eliminating the need to prepare additional PCs during installation.

Besides allowing serial devices to be networked, any PC Server or Workstation host without network access can be set up to allow access to remote serial devices by adding one of the DE-3xx models to its existing serial port.

#### Features

- Auto-detecting 10/100Mbps Ethernet
- LCD IP display and configuration
- Built-in Ethernet and TCP/IP protocol supporting TCP Server, TCP Client, UDP Server/Client
- Supports Windows Native COM drivers and Linux fix/real tty driver
- Automatic network connection recovery
- Provides Desktop and DIN-Rail installation

#### Benefits

- Can control serial devices located virtually anywhere via the Ethernet or Internet
- Highly reliable network to serial solution
- No need to change your existing COM application software, saving hardware upgrade costs

#### Applications

- Industrial/Factory/Laboratory automation
- SCADA systems
- Automatic warehouse control systems
- Building automation systems
- Wafer fabrication systems
- Self-service banking systems
- Retail systems
- Other remote and distributed serial device control

#### Specifications

Processor:	80186
I/O Controller:	16C550C or compatible
Memory:	512 KB
Serial Connector:	DB9P (male) connectors
LAN:	RJ-45 Auto-detecting 100Base-Tx (10/100 Mbps)
Serial Type:	RS-232 (DE-301, DE-302 and DE-304) RS-422/485 (DE-332 and DE-334)
Number of Ports:	DE-301: 1 port DE-302 & DE-332: 2 ports DE-304 & DE-334: 4 ports

International Headquarters:

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RS-232 Pin-out: (3), RD (2), RTS (7), CTS (8), DTR (4), DSR (6), DCD (1), GND (5)  
RS-422 Pin-out: TD+ (2), TD- (1), RD+ (3), RD- (4), RTS+ (7), RTS- (6), CTS+ (8), CTS- (9), GND (5)  
RS-485 Pin-out: Data+ (2), Data- (1), GND (5)  
Baud Rate: 50 - 230.4K baud  
Maximum Ports: 256 (Windows NT), 128 (Windows 95/98)  
Parity: None, even, odd, space, mark  
Data Bits: 5, 6, 7, 8  
Stop Bits: 1, 1.5, 2  
OS Supported: Windows XP, Windows 2000, Windows NT, Windows 95/98/ME, Unix Ware SVR4.2, Unix Ware 7 SVR5, SCO Open Server, SCO UNIX, Linux 2.2x/2.0.x (Intel x86 running TCP/IP)  
Power Requirements: 9 - 30 VDC (1.1 A @ 9 VDC)  
Operating Temperature: 32 - 131°F (0 - 55°C)  
Dimensions: 6.1 x 4.1 x 1.3 in (15.5 x 10.5 x 3.3 cm)  
Surge Protection: 15 KV ESD for serial ports  
Magnetic: 1.5 KV for Ethernet  
Approvals: FCC, CE

**Model:            Description:**

DE-301	1-Port RS-232 Device Server
DE-302	2-Port RS-232 Device Server
DE-304	4-Port RS-232 Device Server
DE-332	2-Port RS-422/485 Device Server
DE-334	4-Port RS-422/485 Device Server

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