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# EM1500 Serial – Ethernet Bridge™

*With Web Browser Interface & GUI Configuration*  
From \$249 (qty. 1)



The EM1500 Serial-Ethernet Bridge is a device that converts multi-point serial communications to a TCP/IP network. The EM1500 connects to and network enables as many as 4 RS-232 serial devices simultaneously. In addition, the EM1500 provides an SPDT relay, 2 digital open collector outputs and 3 digital inputs suitable for interfacing to mechanical switches or logic level circuits.

Success in today's marketplace demands rapid, low-cost access to information. The EM1500 is designed to allow easy setup and monitoring via a "black box" approach. No programming is needed. Quick configuration over Ethernet, using a web server or the stand-alone GUI configuration program, is easy and convenient.

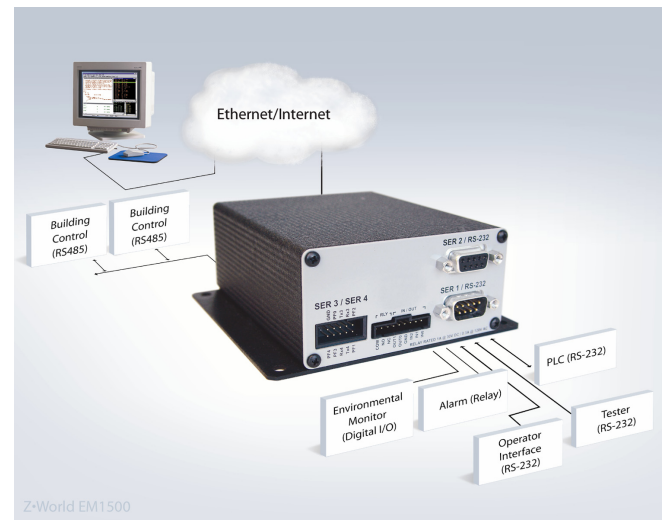
The EM1500 interfaces with modems, sensors, card readers, bar scanners, printers, and other types of serial devices. Using two EM1500s allows the creation of a transparent serial bridge, thereby using some of the more advanced software features, such as packaging and protocol conversions. Third party, RFC2217-compliant comm port redirector software can be added that allows a PC application to read RS-232 ports on a remote EM1500 on the Internet or a LAN as local serial ports.

## Hardware Features

- 10/100Base-T Ethernet
- 4 Serial Ports:
- Up to 600 Kpbs throughput
- Serial ports 3 & 4 are either independent RS-232 ports up to 120 Kpbs or TTL
- One half-duplex RS-485
- Easily interface legacy serial devices to Ethernet
- Extend the communication distance between 2 serial devices
- Metal enclosure for industrial applications

## Software Features

- Web browser interface for remote configuration
- GUI for easy configuration and monitoring
- Secure remote configuration
- AT command set emulation
- RFC2217 compliant



## Configuring the EM1500

The EM1500 requires only minimal configuration. All of the necessary operating software and start-up/configuration files come pre-loaded with an easy-to-configure GUI and web browser application.

## Tool Kit

The EM1500 Tool Kit includes software, users manual, schematics, AC adapter, communication cables, and Ethernet crossover cable. (International orders do not include AC adapter unless specifically requested.)

## EM1500 Serial Ethernet Bridge Specifications & Features

| FEATURE  | EM1500   |
|--|--|
| <b>Microprocessor</b>                            | Rabbit 3000 at 44.2 MHz  |
| <b>Ethernet</b>                                  | 10/100Base-T, RJ-45  |
| <b>Flash</b>                                     | 512K/256K data   |
| <b>SRAM</b>                                      | 512K program execution   |
| <b>Backup Battery</b>                            | 3 V lithium coin type, 950 mA h  |
| <b>Relay</b>                                     | SPDT, 1 A @ 30 VDC, 0.3 A @ 120 VAC  |
| <b>Digital Inputs</b>                            | 3 protected to $\pm 36$ V  |
| <b>Digital Outputs</b>                           | 2 sinking up to 750 mA, $\pm 0.5$ VDC max.   |
| <b>Serial Ports</b>                              | 1 DTE RS-232<br>1 DCE RS-232<br>1 RS-485 half duplex<br>1 or 2 configurable serial port(s): Two 3-wire, One 5-wire, or One 9-wire (TTL only)                           |
| <b>Serial Rate</b>                               | 75-230.4 Kbps, 7/8 data bits, N/O/E/M/S parity, 1 stop, min thru-put: 600 Kbps   |
| <b>Serial Buffer</b>                             | 1020 bytes   |
| <b>Configuration GUI</b>                         | Supports WIN32, x86 Linux  |
| <b>Flow Control (RS-232)</b>                     | None, XON/XOFF, RTS/CTS, DTR/DSR, DCD set independently for each directions (Tx, Rx)   |
| <b>Protocols</b>                                 | TCP/IP, telnet, RFC2217, DHCP, ARP, ICMP, DNS  |
| <b>LEDs</b>                                      | 4: PWR (red), ACT (yellow), LINK (green), USER (red and green)   |
| <b>Power</b>                                     | 9-36 V DC @ 1.5 W max  |
| <b>Operating Temp.</b>                           | -40°C to +70°C   |
| <b>Humidity</b>                                  | 5-95%, non-condensing  |
| <b>Connectors</b>                                | 2 DB9 (1 male, 1 female)<br>1: 1x9 IDC, 0.1" pitch header<br>1: 1x3 IDC, 0.1" pitch header<br>1: 2x5 IDC, 0.1" pitch header<br>RJ - 45<br>1: 2 Position screw terminal |
| <b>Enclosure Size</b>                            | 3.56" x 4.18 " x 1.72" (90 x 106 x 44 mm)  |
| <b>Pricing (qty. 1/100/1000)<br/>Part Number</b> | \$249/204/174<br>101-0583  |
| <b>Tool Kit<br/>Part Number</b>                  | \$99<br>U.S. 101-0585      Int'l 101-0586  |

### Tool Kit includes:

- Prototyping board
- AC adapter (U.S./Canada only)
- EM1500 software on CD-ROM
- Multiple communication cables
- Firmware
- User manual
- GUI
- Wire Kit
- Web Server
- Screwdriver