



## Models ESP901 and ESP902 Vlinx Ethernet Serial Servers

### Ethernet Enable Any Serial Device



Now you can Ethernet enable any serial device. Use B&B's Vlinx Serial Server technology to put your serial ports to work for you. Imagine the ability to communicate with every piece of equipment from any networked PC. Eliminate site visits just to find a need to make a minor configuration change. Reduce service calls and increase productivity by knowing what your equipment is doing before you get a trouble-report. Spend more time doing the work you're paid to do instead of chasing down nuisance problems with remotely located equipment.

Do you have equipment with serial ports that you have left unconnected? Much of today's high-tech equipment ships with a serial port for programming, monitoring or diagnostics. 80% of these serial ports are left unconnected, often because a person travels to the port to make the connection or a permanent PC is not desirable. With B&B's Vlinx Serial Servers, you can put all of those ports to work for you.

Simply connect the Vlinx server to the equipment's serial port, and connect the Vlinx Ethernet port to your LAN. Your equipment is now online. It will appear as a local COM port on any networked PC running our Virtual Serial Port software. No software customization required, just run the appropriate software for your equipment.

### Industry Applications

B&B Electronics' new Models ESP901 (single port) and ESP902 (dual port) integrate the benefits of Ethernet communications with existing serial devices by offering the combination of three serial interfaces, RS-232, RS-422, and RS-485. The Ethernet connection will auto select 10BaseT or 100BaseTX.

ESP901/ESP902 serial servers provide Windows host control over serial devices located virtually anywhere on a TCP/IP or UDP/IP Ethernet connection. They even give authorized users control over the connected serial device and the server configuration from anywhere outside the LAN.

### Operation Modes

Virtual COM port  
TCP/IP socket and tunneling  
UDP/IP socket and tunneling

### Features

ESP901: single port, ESP902: dual port  
DIN rail or Panel mount  
Supports RS-232, RS-422, and RS-485 serial interfaces  
Remotely upgrade or restore to default settings  
Manual and remote management of console mode  
Supports LAN and WAN communications  
Supports multiple TCP client connections  
Management access password protected

### Product Specifications

Serial Memory: 8K bytes  
Serial Connection: DB9 male – DTE configuration  
Ethernet Connection: RJ-45

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**Interface**

Serial One-RS-232, RS-422, OR RS-485, Dip Switch Selectable  
 LAN 10/100 Mbps Auto-detecting – 10 Base T, 100 Base TX  
 Supported Signals RS-232 - TX, RX, RTS, CTS, DTR, DSR, DCD, GND  
 RS-422 - TX+, TX-, RX+, RX-, RTS+, RTS-, CTS+, CTS-, GND  
 RS-485 - Data +, Data –  
 Data Rate 110 bps to 230.4 kbps  
 Protocols TCP, IP, ARP, DHCP, Telnet, HTTP, UDP, ICMP  
 Management Vlinx Manager, Serial Console, Telnet, Web server  
 Firmware upgradeable

**Power & Environment**

Power Requirements: 12 VDC @ 200 mA  
 (B&B #232PS3 110VAC to 12VDC 500 mA power supply included)  
 Operating Temperature: 32 to 122 °F (0 to 50 °C)  
 Storage Temperature: -4 to 140 °F (-20 to 60 °C)  
 Humidity: 0 - 90% non-condensing  
 Approvals: CE, FCC  
 Dimensions: 3.35 x 4.5 x .90 in (8.5 x 11.5 x 2.3 cm)

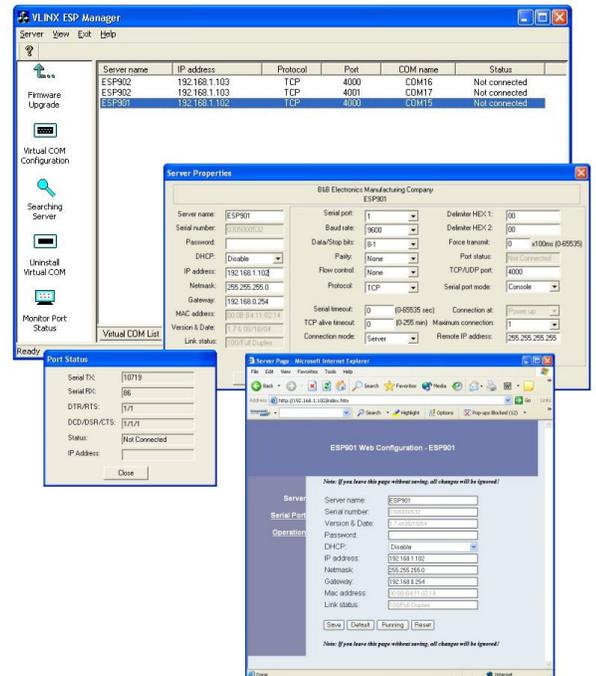
**ESP Manager Software**

Vlinx ESP Manager allows easy access to the serial server to configure the server and ports, upgrade server firmware and monitor port status and activity. When ESP Manager opens it will search for and display all ESP90x serial servers on the network.

The Monitor Port feature allows you to use any PC on the LAN/WAN to actively view and troubleshoot the communications status. It shows when there is a client connection to the server and the client IP address. It displays the number of bytes transmitted and received as well as the status of the hardware handshaking lines.

**Web Server**

ESP901/ESP902 serial servers can be accessed and configured from any web browser (such as Internet Explorer) on the LAN/WAN. This allows you to remotely manage the software and your serial device. It also allows off-site troubleshooting.



**Heartbeat Connection Ensures Reliable Communications**

ESP901/ESP902 serial servers provide automatic resumption of the TCP data connection in case of a power failure or loss of an Ethernet connection on either the client or server. Once the Heartbeat connection is established the server sends a signal to the client every five seconds. If the signal is not received, the serial server will attempt to reconnect the TCP data connection every five seconds until communication is established again.

**System Integrators and OEMs**

Call and ask how B&B Electronics can best fill your product requirements.

**Accessories**

DRAD35.....DIN-Rail Adapter Clips

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