Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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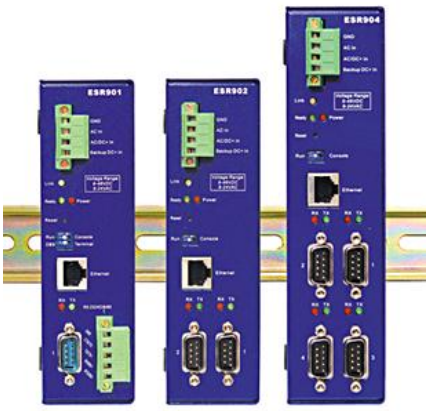
B&B ELECTRONICS

PRODUCT INFORMATION



Models: ESR901, ESR902 and ESR904

Industrial Ethernet Serial Servers

VLINX™ Ethernet Serial Server

Features

- ✓ Ethernet Enable 1, 2, or 4 Serial Ports
- ✓ IP 30 DIN Rail Mountable Case
- ✓ RS-232/422/485 Full and Half-duplex
- ✓ Auto detect 10/100 Mbps Ethernet
- ✓ Virtual COM Drivers for Windows NT/98/ME/2000/2003/XP and Vista

Functional Description

Industrial and commercial measurement and control systems often have standalone devices with unused serial ports. B&B Electronics' ESR Serial Servers allow you to connect those ports into your existing LAN or WAN, giving you access to more information and the ability to configure, manage and troubleshoot those devices from a control room, office or even a distant location via a WAN. Save the cost, time and trouble of carrying a laptop out to devices located in distant, cold, dirty or uncomfortable environments.
ESR Serial Servers are built for use in industrial environments, featuring an IP30 approved slim line DIN rail mountable case. They operate from a range of voltages using AC or DC power, feature terminal block power connectors and even support redundant DC power.
Connect your serial device to the ESR's serial port and connect the ESR to your LAN. Your networked computer 'sees' the device over the network as a virtual serial connection. ESR serial servers support TCP or UDP protocols and allow transmitting to and receiving from multiple IP addresses. There are four methods of configuring ESR serial servers: via Vlinx Management Software, Web Server, Telnet or via a direct RS-232 console connection using a terminal program

Ordering Information

Model Number	**Description**
ESR-901	1 Serial Port Industrial Ethernet Serial Server
ESR-902	2 Serial Port Industrial Ethernet Serial Server
ESR-904	4 Serial Port Industrial Ethernet Serial Server
Accessories	
MDR-40-12	Industrial Slim-line Power Supply

B&B ELECTRONICS

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International Office: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104
European Office: Westlink Commercial Park Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445

Operation

- A detailed operating manual is contained on the CD ROM which ships with the product.
- Vlinx ™ Manager Software allows easy access to the serial server to configure the server and its ports, upgrade server firmware and monitor port status and activity. When the Vlinx Manager opens it will search for and display all 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
- ESR 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
- Vlinx 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 until communication is re-established. Without this feature a device that loses a connection and stops communicating would not be able to reconnect without a person attending to the problem. The Heartbeat feature works with virtual COM and TCP direct IP connections.

Specifications

Serial

Serial Interfaces:	RS-232 (DTE), RS-422, RS-485 (2/4-Wire)
Serial Connectors:	ESR901: TB and DB9 M (selectable) ESR902: 2 x DB9 M ESR904: 4 x DB9 M
Baud Rate:	110 to 230.4 kbps
Parity:	None, Even, Odd, Mark, Space
Data Bits:	5, 6, 7, or 8
Stop Bits:	1, 1,5, or 2
Serial Buffer	8 kb per port

Note: Refer to the manual for pin-outs and signals.

Ethernet

Connector:	RJ-45 F
Data Rate:	10/100 Mbps Auto-detecting 10BaseT or 1000BaseTx
Protocols:	TCP, IP, ARP, DHCP, Telnet, HTTP, UDP ICMP
Configuration	
Console:	RS-232 w/ VT100 Emulation
Telnet:	HyperTerminal w/VT100 Emulation
ESP Manager:	Compatible w/Win98, ME, 2000, 2003, XP, NT, and Vista
HTTP:	Embedded Web Page

Power

Voltage:	9 to 48 VDC or 8 to 24 VAC
Power Consumption:	ESR901: 320 mA @ 12 VDC ESR902: 340 mA @ 12 VDC ESR904: 326mA @ 12 VDC
Connector:	Removable Terminal Block

Environment

Operating Temp:	-14 to 176 F (-10 to 80 C)
Storage Temp:	-4 to 185 F (-20 to 85 C)
Humidity:	5 to 95% Non-condensing
Dimensions	
ESR901/902:	1.75 x 6.1 x 4.1 in (4.46 x 15.52 x 10.46 cm)
ESR904:	1.75 x 7.1 x 4.1 in (4.46 x 18.03 x 10.46 cm)
Enclosure:	IP 30
Approvals:	CE, FCC

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