

ETHERNET SERIAL SERVERS

Why Replace Expensive Devices simply because they have serial ports?

Monitoring and controlling legacy serial devices through your Ethernet LAN or WAN has never been simpler. B&B Electronics' Vlinx™ family of Serial to Ethernet device servers offers reliable connectivity options in a wide variety of port counts and configurations. Our Modbus Gateways solve a whole range of connectivity problems by bridging unlike Modbus devices and networks to your Ethernet.

Different applications demand different solutions. From commercial installations to the harshest heavy industrial environments, B&B Electronics has a solution for you.

So, if you want to monitor a security gate across the parking lot or a temperature controller across the world, B&B Electronics has a Serial Device Server or Gateway to fit your application.

Don't see what you need? Not exactly sure what would work best? Be sure to check out our complete product selection at www.bb-europe.com or contact our free technical support team at **+353 (0)91 792 444**. They'll set you up with the solution that's right for you.

Coming Soon in Ethernet...

Serial Servers VESR400 Series

Ruggedized, 4 Port Ethernet to Serial Servers with fiber options. Wide temp, flexible mounting. Call for details and availability.



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Both commercial and industrial models available

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Our Best Selling 4 Port Industrial Serial Server

Sleek, rugged, power packed performer

Ethernet enable serial ports on industrial equipment. Manage them from the convenience of your desk.



ESR904

"Customer Favorite"

The serial ports on legacy equipment are no problem with Vlinx™ Ethernet serial servers from B&B Electronics. The ESR series are built for use in tough industrial environments.

The slim, DIN rail mountable, rugged IP30 metal enclosures survive and thrive in locations that would demolish standard commercial grade serial servers.

The 4-port ESR904 is a customer favorite, offering versatility and rock solid, guaranteed performance. They operate on a wide range of AC or DC voltages and support redundant DC power.

To read how the ESR904 worked for a Specialised Testing and Analysis System for Global Warming and Hydrocarbon Testing by Geotek, check out: bb-europe.com

APPLICATIONS: Industrial Automation, Building Automation, Security, Fuel Stations, Traffic Management

Features & Benefits

- Low latency/high throughput – view status or configure in real time
- Heartbeat Connection detects communication halts – handles reconnection
- Vlinx™ Manager Software gives you remote access from any web browser
- IP30 rugged metal case stands up to tough environments
- DIN rail mountable

Additional Features & Benefits

- Supports 2 or 4 wire RS-232/422/485
- UDP mode allows multi-cast to and from multiple IP addresses
- VCOM drivers for WIN NT, 2000,XP, Server 2003 & 2008, Vista, Windows 7
- LED indicators provide at-a-glance operational status
- Wide range power: 10-48 VDC or 24VAC

Choose the serial server that's right for you

	ESP Series	ESR Series	VESR
Page:	24	24	25
Features:	Tough	Tougher	Toughest
Mounting	Panel	DIN Rail	DIN Rail
Temperature Rating	-10 to 80°C	-10 to 80°C	-40 to 80°C
UL 508 Listing/TSA Specs			✓
Fiber Optic Ethernet			✓
Industry:			
Retail/Point-of-Sale	✓		✓
Security/Cameras	✓	✓	✓
Building Automation	✓	✓	✓
Industrial PLC/Drives/Process		✓	✓
Traffic Management			✓
Heavy Industry/Utilities			✓

Need Power?

ESR Series

- MDR-20-12 12VDC, 1.67A Slimline DIN Rail Power Supply
- MDR-40-12 12VDC, 3.33A Slimline DIN Rail Power Supply

Ethernet to Serial Servers

Communicate easily with serial equipment

Troubleshoot your network and connected devices from any internet PC



ESP901



ESP902



ESP904



ESR901



ESR902



ESR904

With Vlinx™, and included Manager software, you can Ethernet enable serial ports on equipment, then remotely access and manage from your desk. Configure and view status in real-time.

The Vlinx™ ESP line is designed for demanding commercial applications. Offering the same great communication features as the industrial line, the ESP series has panel mounting and power options for commercial installations.

The Vlinx™ ESR line are built for use in tough industrial environments. The slim rugged cases are IP30 approved and DIN rail mountable. They operate on a wide range of AC or DC voltages and support redundant DC power.

Features & Benefits

- Supports: TCP server, TCP client, UDP & virtual COM and pair modes (tunneling)
- Management: Multiple TCP client sessions
- Serial ports are software selectable for RS-232, 422 or 485, 2 or 4 wire
- VCom drivers for Windows NT/2000/XP/Vista/WIN7
- Operating temperature: -10 to 80°C

Accessories...

DRAD35
DIN rail adapter clips
(ESP series only)

Need Power?

MDR-20-12 12VDC 1.67A DIN Power Supply
MDR-40-12 12VDC 3.33A DIN Power Supply

Series Model No.	ESP ESP901	ESP ESP902	ESP ESP904	ESR ESR901	ESR ESR902	ESR ESR904
Panel Mount	✓	✓	✓			
Wall transformer power (12V)	✓	✓	✓			
Panel Mount	✓	✓	✓			
DIN Rail Mount				✓	✓	✓
Industrial power supply circuit w/terminal blocks				✓	✓	✓
Wide range power: (10-48 VDC or VAC)				✓	✓	✓
Terminal block or DB-9 male				✓	✓	✓
Terminal block wiring				✓	✓	✓
1 port	✓			✓		
2 port		✓			✓	
4 port			✓			✓
Applications	Commercial	Commercial	Commercial	Industrial	Industrial	Industrial

ETHERNET SERIAL SERVERS & GATEWAYS

Vlinx™ Ethernet to Serial Servers for Harsh Environments

Cat 5 copper, single and multi-mode fiber models available

Manage your industrial network from any internet web browser



VESR901



VESR902T



VESR902D

Features & Benefits

- Slim, industrial enclosure saves DIN rail space but maintains ratings
- Web server, simple configuration software – no training required
- Low latency, high throughput lets you view status, configure in real time
- Heartbeat Connection detects failures and automatically reconnects
- Supports TCP server TCP client, UDP, virtual com and pair modes

Additional Features & Benefits

- Wide temperature protection (-40 to 80°C)
- Wide power range 10-58 VDC operation
- Class 1/Div 2 certification
- Data rate up to 230 Kbps
- VCOM drivers for Windows 2000, XP, Server 2003, 2008, Vista and 7

MORE MODELS ONLINE!

A variety of Category 5 copper, multi-mode, and single-mode fiber optic models at bb-elec.com

Model No.	Best Seller! VESR901	VESR902T	VESR902D
Serial Ports	1	2	2
Serial Connection	DB9 & terminal block	Terminal block	DB9
Ethernet Ports	1	1	1
Ethernet Connector	RJ45	RJ45	RJ45
Power Supply Required:	MDR-40-24	MDR-40-24	MDR-40-24

If it has a serial port and you have an Ethernet LAN or WAN, you can keep it in top tune with serial servers. Your control room PC will show the device as if it had a direct connection to monitor. Keep it a maximum production without leaving your desk. You can even troubleshoot remotely from outside your LAN via any Internet browser. Cell phone, remote desktop, wireless laptop – you're not harnessed to the same physical location or means of access.

In addition to standard Cat5 copper Ethernet, Vlinx™ Serial Servers have the largest selection of standard fiber optic port options available. If you use fiber for longer distance communications, or rely on the higher signal security and lower bit rate error of fiber, check out our full fiber optic product selection online at: bb-europe.com/VESR

Accessories...

MDR-40-24	24VDC DIN rail mount power supply. 5A output
TB5P508SR	2pk 5-position terminal block w/strain relief paddle board
DRPM25	35mm DIN rail to panel mount bracket, 25mm wide
EIRSP1	Industrial Ethernet Surge Suppressor

Quatech Range of WiFi Serial Servers



Airborne Industrial Wireless Serial Device Server Serial to 802.11b/g Wireless LAN

- Extended operating temperature range (-40°C to +85°C)
- Plug-n-Play Serial to 802.11 Connectivity and Ethernet to 802.11 Connectivity
- Enterprise Class wireless security (WPA2-Enterprise, WPA, WEP, EAP)
- Airborne Management Center included for Quatech device discovery, control and management
- Variable DC power supply (5-36 VDC) with screw terminal connectors
- 2 kV serial ESD Surge Suppression
- Airborne SpeedLink roaming for enhanced connection reliability
- Onboard certificate delivery and storage
- Airborne PortFlex capability enables any combination of comm ports (Serial, Ethernet and 802.11 interfaces)
- CE and FCC Part 15 Class B Sub C Approval
- 5 year warranty



Airborne Industrial Wireless Access Point 802.11b/g Wireless AP and Serial Device Server

- Infrastructure Access Point/Wireless Router/Client
- Supports up to 8 clients
- Extended operating temperature range (-40°C to +85°C)
- Plug-n-Play Serial to 802.11 Connectivity and Ethernet to 802.11 Connectivity
- Enterprise Class wireless security (WPA2-Enterprise, WPA, WEP, EAP) *EAP in client mode only
- Airborne Management Center included for Quatech device discovery, control and management
- Variable DC power supply (5-36 VDC) with screw terminal connectors
- 2 kV serial ESD Surge Suppression
- Airborne SpeedLink roaming for enhanced connection reliability
- Onboard certificate delivery and storage
- Airborne PortFlex capability enables any combination of comm ports (Serial, Ethernet and 802.11 interfaces)
- CE and FCC Part 15 Class B Sub C Approval
- 5 year warranty



Airborne Enterprise Wireless Device Server Serial to 802.11b/g Wireless LAN

- Extended operating temperature range (-40°C to +85°C) and environmental specifications
- Plug-n-Play Serial to 802.11 Connectivity
- Software-configurable 802.11b interface
- Enterprise Class wireless security (WPA-2 Enterprise, WPA2-PSK, WPA-PSK, WEP, EAP) with Certificates
- Compact Package Outline
- Integrated External Antenna
- Advanced utilities for discovery, configuration, and management of Airborne Serial device
- Worldwide Certification Support- FCC Part 15 Class B Sub C Modular Approval, IIOC, CE, ETSI, ROHS, WEEE
- Five year warranty



Airborne Heavy Duty 802.11b/g Wireless Device Server

- Extended operating temperature range (-40°C to +85°C) and environmental specifications
- Advanced security support includes WEP 64/128, WPA (TKIP), 802.1x (LEAP)
- SAE J1455 compatible power supply
- Ruggedized Deutsch enclosure and connector
- 802.11b/g compliant radio
- Quick time to market & reduced development costs
- FCC Part 15 Class B Sub C Approval
- Reduces need for RF and communications expertise
- RP-SMA connector available for cable or direct antenna connection
- Device integration does not require OS specific drivers



Airborne Embedded Wireless Serial Device Server Board Serial to 802.11b/g Wireless LAN

- Extended operating temperatures (-40° to +85°C) and environmental specifications
- Plug-n-Play Serial to 802.11 Connectivity
- Enterprise Class wireless security (WPA2-Enterprise, WPA2-PSK, WPAPSK, WEP, EAP) with Certificates
- Plug-and-Play LAN and Internet Connectivity
- Integrated RP-SMA Connector
- Software-Configurable 802.11b/g Interface
- Advanced utilities for discovery, configuration and management of Airborne Wireless Serial Device Server
- 3 Status indicator lights
- Integrated RP-SMA Connector
- Worldwide Certification Support-FCC Part 15 Class B Sub C Modular Approval, IOC, CE, ETSI, ROHS, WEEE
- On board power supply
- 5 year warranty

Industrial Modbus Ethernet to Serial Gateways

Get seamless integration between Modbus devices

ASCII – RTU - TCP



MESR901



MESR902T



MESR921



MESR922T

Features & Benefits

- Supports up to 16 simultaneous Modbus TCP masters
- Modbus messaging priority control (source or function code selectable)
- Built in traffic monitor for instant verification of installation or diagnostics
- Free configuration software – easy programming through web browser or port
- Slim industrial enclosure saves valuable DIN rail space

Need Power?

MDR-60-24

24VDC DIN rail power supply, 5A output

More Cat 5, Single and Multi-mode Fiber options available online at www.bb-europe.com

Model No.	MESR901 Most Popular	MESR902T Dual Serial Ports	MESR921 Dual Ethernet Ports	MESR922T Dual Ethernet Ports
Serial Ports	1	2	1	2
Serial Connection	DB9 & Terminal block	Terminal block	DB9 & Terminal block	Terminal block
Ethernet Ports	1	1	2	2
Ethernet Connector	RJ45	RJ45	RJ45	RJ45
Heartbeat Connection	Yes	Yes	Yes	Yes
Wide Temp	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C
Class 1/Div 2	Yes	Yes	Yes	Yes
Modbus RTU or ASCII on serial ports	Yes	Yes	Yes	Yes

Technical Support Note

Mario explains Modbus

Protocols are like languages, French, English, Spanish, or Japanese. If devices are to understand each other, they must speak the same language, otherwise a translator is needed. Interfaces such as RS-232, RS-422, RS-485, or Ethernet only define the electrical interface. ModBus has several dialects, ASCII, RTU or Modbus/TCP. A modBus Gateway like the Vlinx MESR series bridges between ModBus protocols, enabling communications between ModBus devices speaking different dialects. Protocol Gateways like our ConnectPro can translate between more than 100 different protocols, establish a device using one protocol to access data in a different protocol and electrical interface. Gateways also solve other connectivity problems, like allowing multiple "master" devices to access and share data. For a complete listing of protocols supported, visit www.bb-europe.com

