

**Models: PES1A, PESV1A** 

# Serial Server with Power over Ethernet (PoE) (F

# Description

Power-over-Ethernet technology is a new Ethernet extension intended to eliminate the cost and clutter of power supplies. Using PoE, power is injected by the Ethernet switch or Ethernet midspan device onto the Ethernet cable itself. With PoE, specially designed

Ethernet devices can draw their power through the Ethernet cable eliminating the need for separate wall-transformers and power cords. Both PES1A and PESV1A offers RS-232 serial server with PoE. Additionally PESV1A adds 3 selectable power outputs for your end device.

Selectable power: While these units comply fully with the IEEE 802.3af standard governing PoE transmissions, there is no standard for the power to serial devices such as bar code scanners, slip printers or other devices. This creates a challenge for the system integrator, VAR, OEM and customer. To counter this, variable voltage levels are built into the serial servers, selectable by switch or the built-in web server (PESV1A only). They can meet virtually any DC voltage requirement, with power up to 4 W (125mA max in rush).

### **Features**

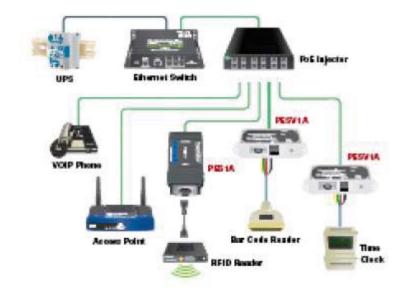
- Transparent 10/100Mbps operation
- Auto-detects the power requirement
- Compatible with IEEE 802.3af
- Current limited ports for short circuit protection

## **Benefits**

- RJ45 10/100BaseT auto-sensing interfaces
- Supports the IEEE 802.3af standard for Power-over-Ethernet
- Simple plug & play operation
- Single RS-232, DB9 serial interface
- Adjustable output power: 5, 9 or 12 VDC hardware selectable (PESV1A only @ 4 W max)
- Compact size: PES1A: 0.9 x 1.6 x 3.8 in, PESV1A: 1.0 x 2.8 x 5.1 in

## **Applications**

- Retail/POS
- Building automation/security
- Convenience store/gas station
- Telecom VoIP





## **Specifications**

LAN interface: IEEE 802.3, IEEE 802.3af (spare or data pair) Data rate:

10BaseT, 100BaseTX (auto detecting) Full or half duplex (auto detecting) Data mode:

TCP, UDP, DHCP, SNMP, SSL/TLS, TELNET, RLOGIN, RFC 2217, LPD, Protocols supported:

HTTP/HTTPS, SMTP, ICMP, IGMP, ARP

LAN connector: RJ45 - 8 pin

Serial support: TD, RD, RTS, CTS, DTR, DCD, DSR, GND

Serial baudrate: 50, 75, 110, 134, 150, 200, 300, 600, 1200, 1800, 2400, 3600, 4800, 9600, 14400,

19200, 28800, 38400, 57600, 115200, 230400

Serial connector: DB9 male Data bit: 5, 6, 7, 8

Data parity: Mark, space, none, even, odd

Stop bit: 1, 2

none, RTS/CTS, XON/XOFF Flow control:

Management: Web browser

Client software: Virtual COM port driver, discovery software VCOM O/S: Windows 98, ME, 2K, XP, NT 4.0, Vista

Communication mode: Virtual COM port mode, direct IP mode, pair mode

Power input: 48 VDC via PoE Class 3

Power output (PESV1A): 2 position terminal block

5, 9, or 12VDC (slide switch selectable) @ 4W max (125mA in rush max)

LEDs: Power (red – PESV1A only)

LAN link (yellow) Data activity (green)

Operating temperature: 0° to 70° C (32° to 158° F) -40° to 85° C (-40° to 185° F) Storage temperature: Relative humidity: 10 to 90% non-condensing

Certifications: FCC, CE

Dimensions: PES1A 0.9 x 1.6 x 3.8 in (2.3 x 4.1 x 9.7 cm) PESV1A 1.0 x 2.8 x 5.1 in (2.5 x 7.1 x 13.0 cm)

#### DECLARATION OF CONFORMITY

Manufacturer's Name: B&B Electronics Manufacturing Company

Manufacturer's Address: P.O. Box 1040

707 Dayton Road

Ottawa, IL 61350 USA

Model Numbers: PES1A, PESV1A

1 Port Serial Server with PoE (PESV1A with power Description:

output)

Light industrial ITE equipment Type:

Application of Council Directive: 89/336/EEC Standards: EN 55022

EN 61000-6-1

EN 61000 (-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11)

Robert M. Paratore, Director of Engineering



