# Models: PES1A, PESV1A <br> Serial Server with Power over Ethernet (PoE) C 

## 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 ( 125 mA 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: $0.9 \times 1.6 \times 3.8$ in, PESV1A: $1.0 \times 2.8 \times 5.1$ in


## Applications

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



## Specifications

LAN interface:
Data rate:
Data mode:
Protocols supported:
LAN connector:
Serial support:
Serial baudrate:
Serial connector:
Data bit:
Data parity:
Stop bit:
Flow control:
Management:
Client software:
VCOM O/S:
Communication mode:
Power input:
Power output (PESV1A):
LEDs:

Operating temperature:
Storage temperature:
Relative humidity:
Certifications:
Dimensions:

IEEE 802.3, IEEE 802.3af (spare or data pair)
10BaseT, 100BaseTX (auto detecting)
Full or half duplex (auto detecting)
TCP, UDP, DHCP, SNMP, SSL/TLS, TELNET, RLOGIN, RFC 2217, LPD,
HTTP/HTTPS, SMTP, ICMP, IGMP, ARP
RJ45-8 pin
TD, RD, RTS, CTS, DTR, DCD, DSR, GND
$50,75,110,134,150,200,300,600,1200,1800,2400,3600,4800,9600,14400$,
19200, 28800, 38400, 57600, 115200, 230400
DB9 male
5, 6, 7, 8
Mark, space, none, even, odd
1, 2
none, RTS/CTS, XON/XOFF
Web browser
Virtual COM port driver, discovery software
Windows 98, ME, 2K, XP, NT 4.0, Vista
Virtual COM port mode, direct IP mode, pair mode
48 VDC via PoE Class 3
2 position terminal block
5, 9, or 12VDC (slide switch selectable) @ 4W max (125mA in rush max)
Power (red - PESV1A only)
LAN link (yellow)
Data activity (green)
$0^{\circ}$ to $70^{\circ} \mathrm{C}\left(32^{\circ}\right.$ to $\left.158^{\circ} \mathrm{F}\right)$
$-40^{\circ}$ to $85^{\circ} \mathrm{C}\left(-40^{\circ}\right.$ to $\left.185^{\circ} \mathrm{F}\right)$
10 to $90 \%$ non-condensing
FCC, CE
PES1A $\quad 0.9 \times 1.6 \times 3.8$ in $(2.3 \times 4.1 \times 9.7 \mathrm{~cm})$
PESV1A $\quad 1.0 \times 2.8 \times 5.1 \mathrm{in}(2.5 \times 7.1 \times 13.0 \mathrm{~cm})$

| 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 |
| Description: | 1 Port Serial Server with PoE (PESV1A with power output) |
| Type: | Light industrial ITE equipment |
| 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 | neering |

