



BiPAC PES084

8-port Fast Ethernet Switch with 4-port PoE

Economical unit for data and power

The Billion PES084 is an economical switch providing data and power from a single point, using Power over Ethernet (PoE) over a single Cat-5 and above twisted-cable. Just plug into one of eight Fast Ethernet ports, that can be used for any 10/100 Mbps connectivity and four of which can supply IEEE 802.3af PoE. Advanced auto-sensing algorithms provide power only to 802.3af-compliant PoE devices, so no need to worry about damaging proprietary PoE or non-PoE equipment. What makes the device even economical to SMB users is it helps save energy by lowering down power consumption when no PoE devices are connected.

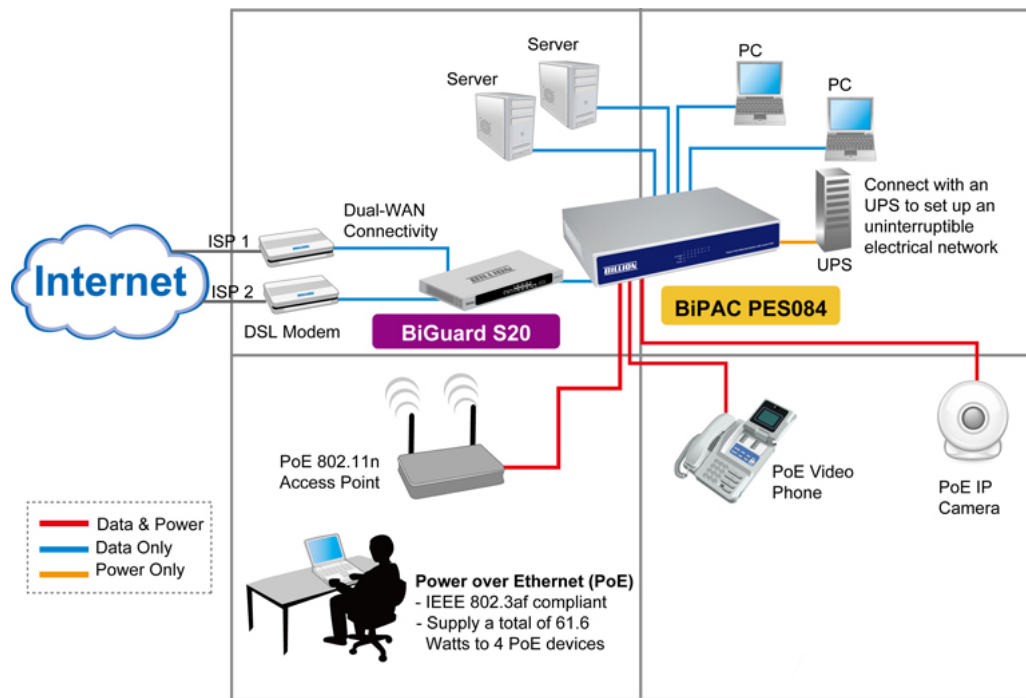
Flexibility in placing PoE-based devices

The BiPAC PES084 delivers PoE to any small business network that demands simplifying the installation of wireless access points, VoIP devices or IP cameras, which are usually set up on a ceiling or high on a wall away from most electrical outlets. The PES084 with PoE eliminates the requirement for a dedicated electrical outlet for devices like these, allowing the flexibility in placing PoE-based devices where AC power is difficult to access and lowers installation costs.

Easy Plug and Play

By using Nway protocol, the BiPAC PES084 automatically senses and adjusts for network speed, duplex, and cabling type. It is fully compliant with all kinds of network protocols, for easy integration into any existing 10/100 Ethernet network. For PoE, the switch automatically detects 802.3af-compliant devices and its requirement, and supplies power as needed. The rich diagnostic LEDs on the front-panel keep you informed of operating status of individual port and whole system.

- ✓ 8 x RJ-45 ports for 10/100Mbps connectivity
- ✓ 4 x PoE ports with classification identify
- ✓ Supports 15.4W maximum per PoE port
- ✓ Robust power protection design to ensure power safety
- ✓ Supports N-Way protocol for network speed (10/100Mbps) and duplex mode (full & half) auto-detection
- ✓ Supports MDI/MDI-X auto crossover
- ✓ Wire-speed packet filtering and forwarding rate
- ✓ Store-and-forward architecture for low-latency and error-free transmission
- ✓ Internal universal switching power supply
- ✓ True plug and play installation
- ✓ Ideal for SOHO and SMB users



Features & Specifications

Standard Compliance

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX
- IEEE802.3af Power over Ethernet
- IEEE802.3x flow control

Performance

- Packet filtering/forwarding rate:
 - 148,800pps for 100Base-Tx port
 - 14,880pps for 10Base-T port
- Wire-speed performance

MAC and Packet Buffer Memory

- 1K MAC entries
- 768K bits packet buffer

Network Data Transfer Rate

- Total 1.6 Gbps network data transfer rate
- Ethernet
 - 10Mbps (Half-duplex) / 20Mbps (Full-duplex)
- Fast Ethernet
 - 100Mbps (Half-duplex) / 200Mbps (Full-duplex)

Traffic Management

- N-Way protocol for network speed (10/100Mbps) and duplex mode (full & half) auto-detection
- MDI/MDI-X auto crossover
- Supports full and half duplex operation on all ports
- Back-pressure (half duplex) and flow control
- Transmission method: store-and-forward architecture filters fragment and CRC error packets

Megabit Connectivity

- 10/100Mbps RJ-45 N-way ports

Hardware Specification

- **Connectors**
 - 8 x 10/100 RJ-45 ports, auto-negotiation and auto-crossover
- **Power Supply**
 - External power 48V DC/1.35W
- **Power Input**
 - 100~240V, 50/60 Hz AC
- **Power Consumption**
 - 65W (maximum)
 - 4.848W maximum when no PoE device connected
 - PoE budget: total 61.6W (PoE from port 1 to port 4) up to 15.4W maximum per PoE Port
- **Dimension**
 - 262 x 184 x 41 mm
- **Weight (main body)**
 - 1.4 kg

LED Indicators

- Supports extensive LED indicators for network diagnostics
 - System: Power (Green)
 - Port: Link/Act (Green), PoE Act (Green)

Minimum System Requirements

- Devices Supporting 802.3 Ethernet, or 802.3u Fast Ethernet
- Ethernet cable
- Network interface card for each computer

Operating Environment

- Operating temperature: 0 ~ 40°C (32 -104°F)
- Operating humidity: 10% ~ 90% (non-condensing)

Note: All the specifications are subject to change without prior notice.

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