



## 24-port Gigabit Web Smart Switch with 4-Port Mini-GBIC (SFP)

### Flexible network expansion

Easily boosting your networking throughput via the BiPAC GS2024-4S! It's a professional switch featuring 24 ports 10/100/1000Mbps interface meant for business to expand to a Gigabit network expansion. What make it nice is it integrates 4 mini-GBIC (SFP) slots allowing users to select the appropriate transceiver for each link to provide the required optical reach over the available optical fiber type for flexible fiber connection. It is fully compliant with all kinds of network protocols. Simply plug and play - you can connect the device with up to 24 computers or network-based devices like Network Attached Storage (NAS) for applications such as files, video, photo and data sharing.

### Efficient management on entire network

The smart management functionalities are useful and efficient to the MIS administrators. VLAN that reduces the size of collision domains increases network performance by limiting broadcast traffic. It supports up to 24 groups of VLAN table. Port Aggregation enlarges the bandwidth of backbone connection. Tag- and port-base QoS is supported to guarantee the bandwidth for some bandwidth-demanding applications such as VoIP and videoconference. The supported 802.3x standard and backpressure flow control mechanisms ensure the correction of data transmitting. The web-based management interface makes the MIS easy to manage the networks.

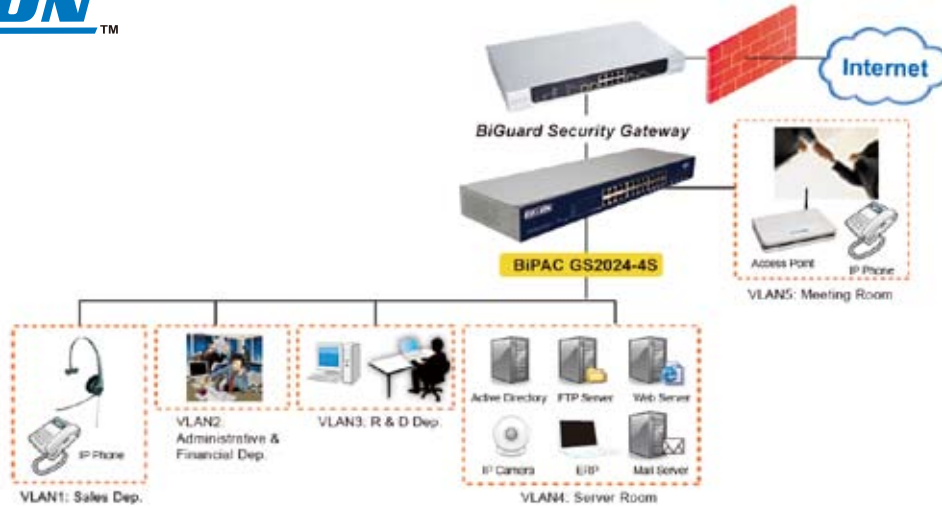
### Enhancing network performance

The BiPAC GS2024-4S is on non-blocking architecture that supports every switch port at full-duplex capability, enabling all its 24 ports to boost bandwidth up to a total 48Gbps backbone link to switched workgroup or a server fat-pipe link. It eliminates users concern of bandwidth congestion. Its store-and-forward switching mode at full wire-speed for maximum performance ensures low-latency and error-free transmission, thus efficiently saving users' time to enjoy multimedia applications with better network performance.

Ideal for  
SMB users

- Smart power saving technology for efficient energy consumption
- Power savings by number of connected ports and link status
- Power savings by cable length
- Integrates 4 mini-GBIC (SFP) slots for optional fiber connection
- 24 Gigabit ports at N-Way protocol for speed and duplex mode auto-detection
- Wire-speed packet filtering and forwarding rate
- Store-and-forward architecture for low-latency and error-free transmission
- Supports Port mirror
- Supports RSTP, 802.1x, IGMP snooping
- Supports QoS function, 802.1p, DSCP priority
- Supports port aggregation up to 8 groups
- Supports up to 16 groups of VLAN table
- Web-based smart management interface
- Supports 8K MAC address
- 4M bit buffer memory
- 9K byte jumbo frame





## Features & Specifications

### Standard Compliance

- IEEE 802.3ab 1000Base-T Gigabit Ethernet
- IEEE 802.3z Gigabit Ethernet (Fiber)
- IEEE 802.3u 100Base-Tx Fast Ethernet
- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3x flow control
- IEEE 802.1q standards

### Performance

- Packet filtering/forwarding rate:
  - 1488,000pps for 1000Base-T port
  - 148,800pps for 100Base-Tx port
  - 14,880pps for 10Base-T port
- Wire-speed performance
- Supports jumbo frames: up to 9K bytes

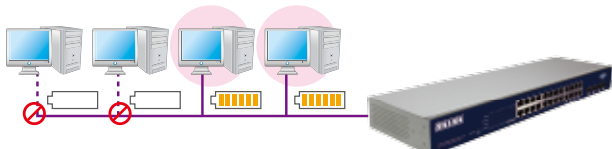
### Port Management

- Supports auto-detection for mini-GBIC module inset
- Supports Port Mirror
- Supports port aggregation up to 8 groups
- Supports QoS function, 802.1p, DSCP priority
- Supports Rate Limit
- Supports full duplex flow control and half duplex back pressure
- Supports up to 16 groups VLAN table
- Supports firmware upgrade
- Support SNMP, RSTP, 802.1x, IGMP snooping

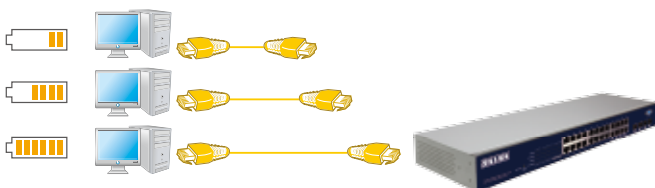
### Smart Power Saving Technology

- Creates less heat and extends product life
- Reduces power consumption

A. Power savings by number of connected ports and link status



B. Power savings by cable length



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

### MAC and Packet Buffer Memory

- 8K MAC entries
- 4M bits packet buffer

### Traffic Management

- N-Way protocol for network speed (10/100/1000Mbps) 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

### Hardware Specification

- **Interface**
  - 24 x 10/100/1000 RJ-45 ports, auto-negotiation and auto-crossover
  - 4 x mini-GBIC(SFP) port
  - 1 x RS-232 port
  - 1 x Restore Default Button
- **Power Supply**
  - Internal power 100~240VAC, 50 / 60Hz
- **Physical Specification**
  - Dimension: 17.36 " x 5.11 " x 1.73 "
  - (441 x 130 x 44 mm)

### LED Indicators

- Supports extensive LED indicators for network diagnostics
  - Power x 1: Green
  - 10/100M Link/Act x 24: Green
  - 1000M Link/Act x 24: Green
  - Mini GBIC (SFP) slot shares the same LED indicator with the last 4 RJ-45 (copper) ports

### Minimum System Requirements

- Devices Supporting 802.3 Ethernet, 802.3u Fast Ethernet, or 802.3ab Gigabit 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)

### Certification

- FCC
- CE
- VCCI Class A