

# 8-Port Green Gigabit Switch

## Energy-Efficient Ethernet



BEC GS08



### Expanding to a Gigabit Network

The BEC GS08 featuring 8 ports 10/100/1000Mbps is designed to expand your Gigabit network. It is fully compliant with all kinds of network protocols. Simply plug and play - you can connect the device with up to 8 computers or network-based devices like PS3, Xbox 360 and Network Attached Storage (NAS) for applications such as gaming, video, music and data sharing.

### Enhancing Network Performance

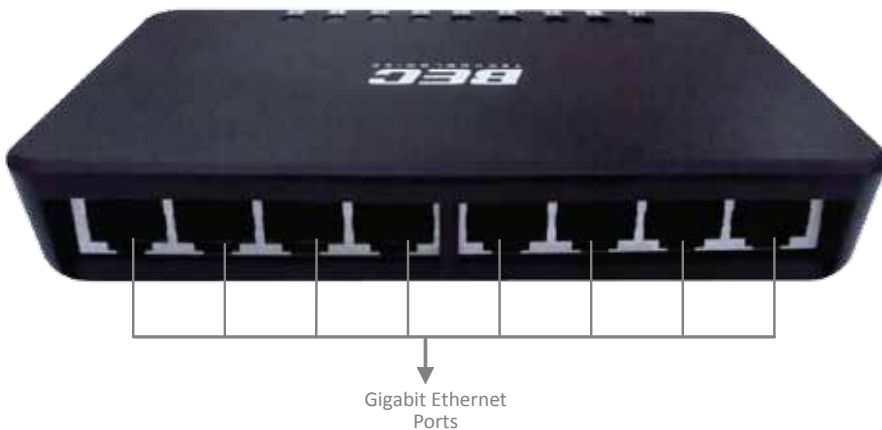
The BEC GS08 8-port Gigabit Ethernet Switch is on non-blocking architecture that supports every switch port at full-duplex capability, enabling all its 8 ports to boost bandwidth up to a total 16Gbps backbone link to switched workgroup or a server fat-pipe link. It eliminates users concern of bandwidth 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.

### Smart Power Saving

The BEC GS08 8-port Gigabit Ethernet Switch with integrated Smart Power Saving technology helps your network save power by up to 60%, thus efficient for energy consumption and money saving. It automatically powers down ports when detecting no connection and plans different power output for different cable lengths. The stylish mini-sized switch and its power adapter require little space on your desktop, leaving more room for other equipment

### Features:

- Up to 2 Gbps throughput per port in full-duplex mode
- Smart power saving technology for efficient energy consumption
  - Power savings by number of connected ports and link status (45% ~ 60%)
  - Power savings by cable length (16% ~ 18%)
- 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 extensive LED indicators for network diagnostics
- Supports 4K MAC address
- 1M bits buffer memory
- 9K bytes jumbo frames
- External power adapter
- Plug-n-Play Capability! No need for additional programming / configuration
- Ideal for SOHO and home users



## Application Diagram



## Features & Specifications

### Standard Compliance

- IEEE 802.3ab 1000Base-T Gigabit Ethernet
- IEEE 802.3u 100Base-Tx Fast Ethernet
- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3x flow control

### 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

### MAC and Packet Buffer Memory

- 2K MAC entries
- 1M bits packet buffer

### Smart Power Saving Technology

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

### Network Data Transfer Rate

- Total 16Gbps network data transfer rate
- Ethernet
  - 10Mbps (Half-duplex) / 20Mbps (Full-duplex)
- Fast Ethernet
  - 100Mbps (Half-duplex) / 200Mbps (Full-duplex)
- Gigabit Ethernet:
  - 1000Mbps (Half-duplex) / 2000Mbps (Full-duplex)

### 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

### Gigabit Connectivity

- 10/100/1000Mbps RJ-45 N-way ports

### Hardware Specifications

#### Connector

- 8 x 10/100/1000 RJ-45 ports, auto-negotiation and auto-crossover

#### LED Indicator

- Supports extensive LED indicators for network diagnostics
  - Power: Green
  - Link/Act: Green

#### Power Requirements

- External Power: 12V DC, 1A
- Consumption: 12W (Maximum)

#### Physical Specifications

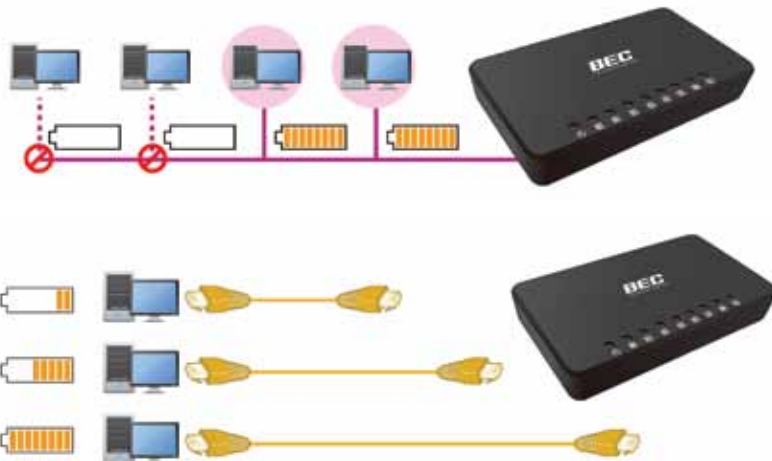
- Dimension: 6.08" x 3.35" x 1.02" (154.5 x 85 x 26 mm)
- Weight (main body): 345g

### Minimum System Requirements

- Devices Supporting 802.3, 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)



\*Notes:  
Specifications in this datasheet are subject to change without prior notice. Copyright © BEC Technologies, Ltd. All rights reserved.