

**pakedge**device&software inc.

**SW8-4PB**  
8 Port 10/100M Switch with 4 POE

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**SW24-GB**  
24-Port Gigabit Switch

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switches  
clean face

quiet

designed for  
AV racks



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## The Family of Pakedge Switches

### Pakedge Enterprise - Class Ethernet switches

are designed for the converging computer and IP-based audio/video networks. When the family of Pakedge switches is used to create both the wired and wireless infrastructure, computer networks, audio/video networks, and home automation networks will work seamlessly together. Pakedge switches are capable of segmenting and/or prioritizing the network to perform with minimum interference from other non similar components. This allows all devices to work more reliability and be more responsive. The goal is to ensure that control systems respond quickly and audio and video play without interruptions.

Pakedge offers a wide range of Ethernet switches from Gigabit to Power-Over-Ethernet (PoE) to out-of-the-box Managed switches.

In addition, some switches have fiber capabilities which will extend IP-based networks beyond the 100m limitation of Ethernet, using copper cabling. As always, you can count on Pakedge Enterprise-Class performance and reliability as well as simple setup for AV installers. Each model is designed with a small, efficient form factor and slides into AV racks without hassle. All Pakedge switches are installed with cables coming from the back of the unit which ensures a clean finish rack. With their ultra quiet operation which eliminates background noise, you can enjoy your music without worry.

details >

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## Description of Pakedge switches:

### SW8-GBP: Silent, 8 Port Gigabit AV Priority Switch with SFP

The SW8-GBP is a simple-to-use, plug-and-play switch designed to ensure high bandwidth. Demanding applications such as video and audio streaming over IP LANs are given priority "by port" within the internal network helping to achieve a smooth, uninterrupted, jitter-free audio/video experience. Also, the SW8-GBP can give priority to traffic going out to the internet cloud from the internal network. It is designed to be used with other Pakedge plug-and-play switches to create the most robust IP network for both computers and audio/video devices. No configuration, just plug and play.



### SW8-GBV: Silent, 8 Port Gigabit AV Bridging Switch with SFP

The SW8-GBV was created to create the ultimate in IP-based networks for converging computing with audio/video devices sharing the same network. Similar to the SW8-GBP, an 8 Port Gigabit AV Priority Switch with SFP, this model gives priority "by port" to audio/video IP packets over computing related packets also helping achieve a smooth, uninterrupted audio/video experience. In addition, the SW8-GBV separates out audio/video traffic, home control and automation system traffic, and computer-related traffic to ensure all IP streams reach their intended destination more quickly and efficiently. This essentially creates more bandwidth. Note: In order for this product to work properly, it must be used with either a Pakedge Enterprise-Class router or another Pakedge-approved router.



### SW8-GBM: Silent, 8 Port Gigabit Web Smart Switch with SFP

This switch is Pakedge's 8 port, managed gigabit switch for networking savvy dealers who design their own IP-based networks or dealers who want a simple, high bandwidth 8 port gigabit Ethernet switch. With this switch, you can create custom IP-based networks for fast transfer of files that demand high bandwidth and get a real efficiency improvement with the user-friendly, Web-based management interface. This product also comes equipped with one mini GBIC slot for your flexible fiber connection. The Virtual LAN reduces the collisions from wide-broadcasting extraneous devices while QoS is maintained by help secure the necessary priority that applications such as VoIP or videoconferencing require. Additionally, the SW8-GBM has 802.3x and backpressure flow control mechanisms to ensure the correctness of data transmitting.



### SW24-GB and SW16-GB: Quiet Gigabit Unmanaged Ethernet Switch

The SW24-GB provides 24 plug-and-play 10/1000/1000 Mbps Gigabit ports, while the SW16-GB provides 16 ports. They are unmanaged switches designed for easy installation



and maintenance. They are enclosed in a heavy-duty 1U housing with rack-mount hardware included. The SW24-GB and SW16-GB both supports multi-way auto-negotiation protocol that detects network speed and Full/Half duplex modes automatically. Auto-MDI/MDIX function eliminates the need for crossover cables.

### SW8-4PB: Silent, 8 Port Fast Ethernet Switch with 4 port Endspan PoE

The SW8-4PB switch has eight 10/100 Fast Ethernet ports and four Endspan PoE ports. The four PoE ports supply a "full" 15.4 Watts of power to any 802.3af compliant device such as wireless access points, cameras, and VoIP phones. In addition, the PoE ports can be used with non-PoE devices because the switch will only inject power if the device requires it. The SW8-4PB's fanless design provides quiet operation next to AV equipment. The switch has a heavy duty 1U metal housing with rack-mount hardware included.



### SW16-8PB: Quiet 16 Port Fast Ethernet Switch with 8 port Endspan PoE

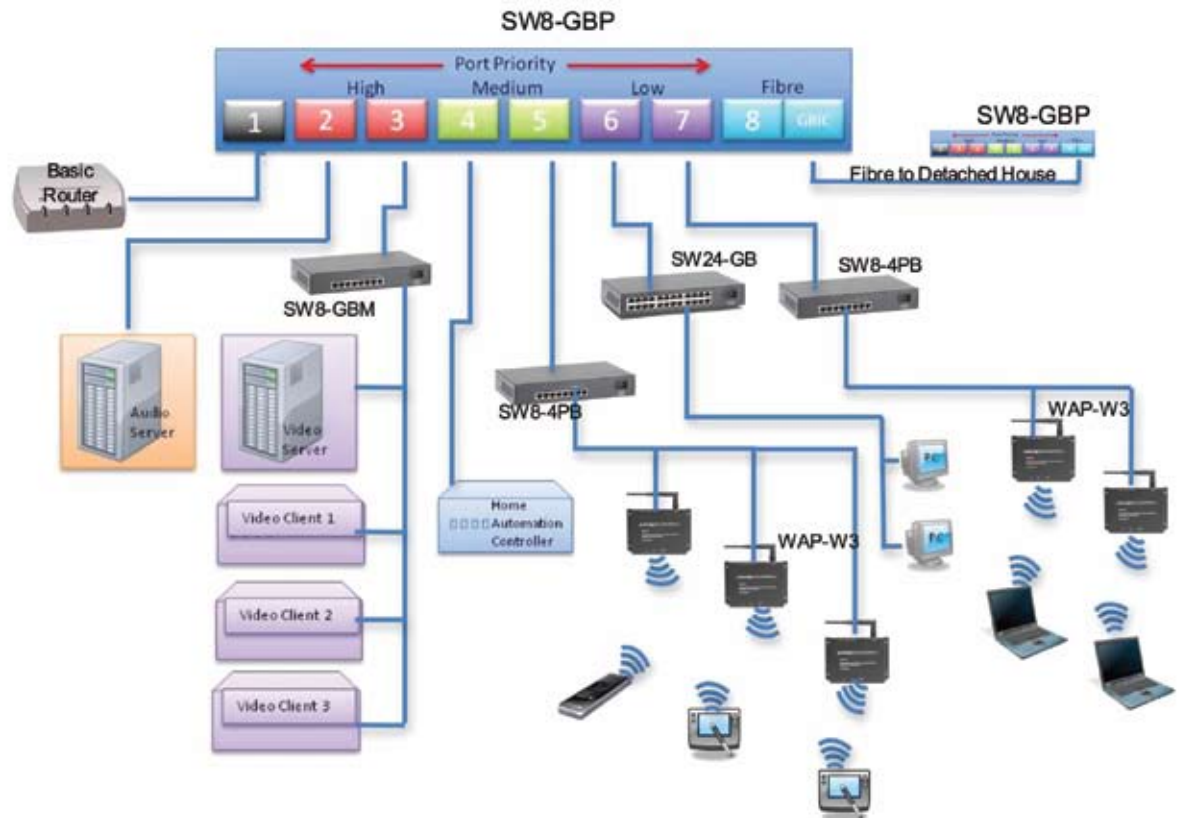
The SW16-8PB meets the need for a fast Ethernet switch and has twice the ports of the SW8-4PB. It has sixteen 10/100 Ethernet ports and eight Endspan PoE ports. This device is versatile and reliable, supplying the "full" 15.4 Watts of power and the ability for PoE ports to be used with non-PoE devices as well. It can connect with any 802.3af compliant device and can be placed next to AV equipment without problem due to its ultra-quiet operation. With wireless access points, cameras, VoIP phones and more, the rack-mounted SW16-8PB does the job.

### The SW5-GW is a compact, high-performance Gigabit Ethernet switch equipped with five Gigabit ports.

The switch is perfect for segmenting large networks into smaller connected subnets for improved performance or expanding the number of ports in an AV cabinet where only one CAT5e cable is located. The switch is plug-n-play and its heavy duty metal chassis design provides for proper cooling and makes it easy to place on a desk, in a structured media panel or mount on a wall. In addition, the fan-less design results in silent operation, which is especially important when it is located in an AV cabinet.



## Priority Switch Example



### 1. Priority switch example using a SW8-GBP

- > The SW8-GBP is the central device. Every other device connects to it because it controls the packet priority of the internal network and also directs what goes out to the internet cloud first. Notice that if additional switches are needed, they all plug into the SW8-GBP so that it can control packet priority and nothing is by-passed.
- > The SW8-GBP will ensure Quality of Service (QoS) by prioritizing traffic 'by port'. Devices connected to port 2 and 3 will have the highest priority; devices connected to ports 4 and 5 will have normal priority; and devices connected to port 6 and 7 will have medium priority; and the device connected to port 8 will have the lowest priority.
- > As the diagram shows, typically, the highest priority devices should be given to audio and video streaming devices. Home controls should have normal priority because the speed of communications is critical but should not take priority over audio and video devices. Finally, computers and laptops should be last because slight packet latency will not affect performance and user experience.
- > Port 1 is reserved for connecting to a Router.

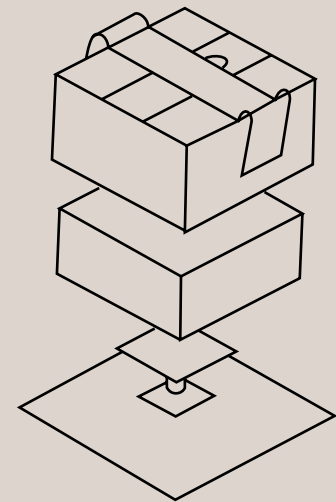
- > Port 8 is a dual connection port. It can be used for another low-priority device using Cat5e or the fiber capabilities can be used to bridge with another SW8-GBP.
- > When the SW8-GBP is used in conjunction with other Pakedge switches, the overall network configuration is designed to keep similar traffic with similar devices and establish a priority of interaction when dissimilar devices need to communicate.

### 2. AV Bridging example using SW8-GBV - 8 Port Gigabit AV Bridging

- > This device is very similar to the SW8-GBP, however the SW8-GBV will eliminate unnecessary IP broadcast between devices that don't need to communicate with each other all the time.
- > An example layout of the SW8-GBV controlled network would be the same as the example layout above. Note that the SW8-GBV can only be used with a Pakedge Enterprise-Class router or another Pakedge-approved router.

# PAKEDGE SWITCHES

Model #	Ports	Clean Face	Silent	Speed	AV Rack Kit included	Ports with PoE	Managed/ Configuration Screen	Priority/QoS Capabilities	Fiber Capable	Works with any router
SW8-4PB	8	Yes	Fanless	Fast Ethernet	Yes	4	No	No	No	Yes
SW16-8PB	16	Yes	Quiet Fan	Fast Ethernet	Yes	8	No	No	No	Yes
SW16-GB	16	Yes	Quiet Fan	Gigabit	Yes	0	No	No	Yes	Yes
SW24-GB	24	Yes	Quiet Fan	Gigabit	Yes	0	No	No	No	Yes
SW8-GBM	8	Yes	Fanless	Gigabit	Yes	0	Yes	User configured	Yes	Yes
SW8-GBP	8	Yes	Fanless	Gigabit	Yes	0	No	Yes	Yes	Yes
SW8-GBV	8	Yes	Fanless	Gigabit	Yes	0	No	Yes	Yes	No, only Pakedge Approved
SW5-GW	5	Yes	Fanless	Gigabit	Wall Mount	0	No	No	No	Yes
SW24-GBM	24	Yes	Quiet Fan	Gigabit	Yes	0	Yes	User configured	Yes	Yes
SW24-24PB	24	Yes	Quiet Fan	Fast Ethernet	Yes	24	Yes	No	Yes	Yes



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