

pakedgedevice&software inc

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

1 2 3 4 5 6 7 8
10/100M
PoE
Power

pakedgedevice&software inc

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

1 2 3 4 5 6 7 8
10/100M
PoE

pakedgedevice&software inc

SW24-GB
24-Port Gigabit Switch

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
1000M
10/100M
PWR

pakedgedevice&software inc

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

1 2 3 4 5 6 7 8
10/100M
PoE
Power

pakedgedevice&software inc

SW24-GB
24-Port Gigabit Switch

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
1000M
10/100M
PWR

pakedgedevice&software inc

1 2 3 4 5 6 7 8
10/100M
PoE

pakedgedevice&software inc.

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 reliably 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.

switches
clean face
quiet
designed for
AV racks

HTTP://
WWW.
PAKEDGE
.COM

pakedgedevice&software inc.

details >

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 and SW24-GBVC: Quiet, Gigabit AV Bridging Switch with SFP

The SW8-GBV and SW24-GBVC were 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, these models give 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 and SW24-GBVC 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. In addition, the SW24-GBVC is configurable, offers more ports and a TRUE guest network. 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 and SW24-GBM: 8 or 24Port Gigabit Web Smart Switch with SFP

Managed Gigabit switch's for networking savvy dealers who design their own IP-based networks or dealers who want a simple, high bandwidth 8 or 24 port gigabit Ethernet switch. With either 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 helping to secure the necessary priority that applications such as VoIP or videoconferencing require. The SW8-GBM and SW24-GBM have 802.3x and backpressure flow control mechanisms to ensure the correctness of data transmitting. In addition, the SW24-GBM combines two SFP Expansion slots to



support Mini-GBIC modules.

SW8-8PB, SW16-16PB and SW24-24PB: Quiet, 8, 16 and 24 Port POE Web Smart, Fully managed with remote power recycling

Fully managed, Power-Over-Ethernet switches each with two Gigabit uplink ports full 15.4W on all ports with remote power cycling. These switches provide an ideal solution to power network audio video devices that require POE. Up to twenty-four 10/100 mbps Fast Ethernet ports and two Gigabit uplink ports that can support either RJ45 or SFP connectors. In addition, each port can be power cycled if a connected POE device needs to be rebooted or becomes unresponsive. POE devices connected to any of these switches can pass and receive VLAN tags and control Quality of Service, important for streaming audio and video.



SW24-GB and SW16-GB: Quiet 24 Port and 16 Port Ethernet Switch

The SW24-GB provides 24 and the SW16-GB provides 16 plug-and-play 10/100/1000 Mbps Gigabit ports. It is an unmanaged switch designed for easy installation and maintenance. It is enclosed in a heavy-duty 1U housing with rack-mount hardware included. Both switches supports multi-way auto-negotiation protocol that detects network speed (10/100/1000 Mbps) 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.



SW5-GW: 5 Port Wall Mount Gigabit Ethernet Switch

The SW5-GW is a compact, high-performance Gigabit Ethernet switch equipped with five auto-speed-sensing 10/100/1000Mbps ports. The SW5-GW 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. 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.

Pakedge Switches

Managed Switches:

SW8-8PB SW8-GBM SW16-16PB
 SW24-GBM SW24-GBVC SW24-24PB

Unmanaged Switches:

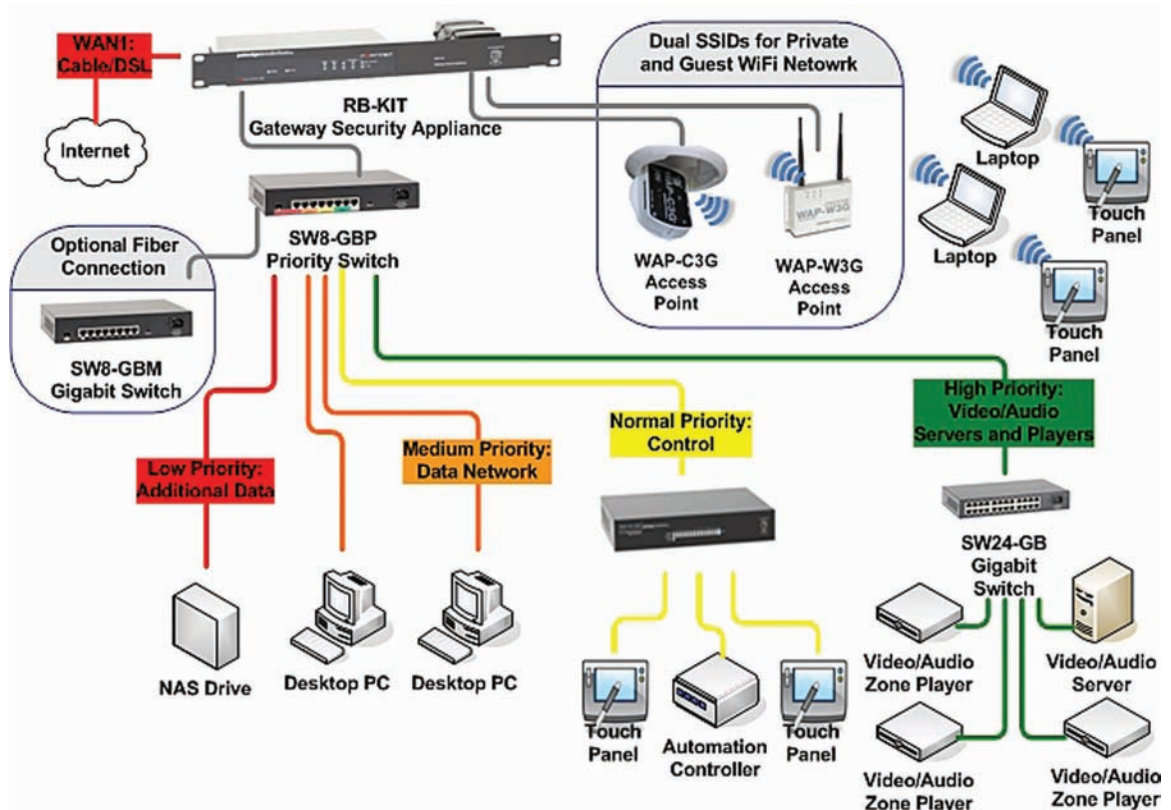
SW5-GW SW8-4PB SW8-GBP
 SW8-GBV SW16-GB SW24-GB

POE Switches:

SW8-4PB (unmanaged)
 SW8-8PB (managed)
 SW16-16PB (managed)
 SW24-24PB (managed)

Model #	Ports	Clean Face	Silent	Speed	AV Rack Kit included	Ports with PoE	Power Cycle by Port	Managed/Configuration Screen	Priority/QoS Capabilities	Fiber Capable	Works with any router
SW5-GW	5	Yes	Yes	Gigabit	Wall Mount	0	No	No	No	No	Yes
SW8-4PB	8	Yes	Fanless	Fast Ethernet	Yes	4	No	No	No	No	Yes
SW8-8PB	8+2 uplinks	Yes	Quiet Fan	Fast Ethernet + two gigabit uplinks	Yes	8	Yes	Yes	User configured	2 Ports	Yes
SW8-GBM	8	Yes	Fanless	Gigabit	Yes	0	No	Yes	User configured	1 Port	yes, in unmanaged form
SW8-GBP	8	Yes	Fanless	Gigabit	Yes	0	No	No	Yes	1 Port	Yes
SW8-GBV	8	Yes	Fanless	Gigabit	Yes	0	No	No	Yes	1 Port	No, only Pakedge Approved
SW16-GB	16	Yes	Yes	Gigabit	Yes	0	No	No	No	1 Port	Yes
SW16-16PB	16+2 uplinks	Yes	Quiet Fan	Fast Ethernet + two gigabit uplinks	Yes	16	Yes	Yes	User configured	2 Ports	Yes
SW24-GB	24	Yes	Quiet Fan	Gigabit	Yes	0	No	No	No	No	Yes
SW24-GBM	24	Yes	Quiet Fan	Gigabit	Yes	0	No	Yes	User configured	2 Ports	Yes
SW24-GBVC	24	Yes	Quiet Fan	Gigabit	Yes	0	No	Yes	Yes	2 Ports	No, only Pakedge Approved
SW24-24PB	24+2 uplinks	Yes	Quiet Fan	Fast Ethernet + two gigabit uplinks	Yes	24	Yes	Yes	User configured	2 Ports	Yes

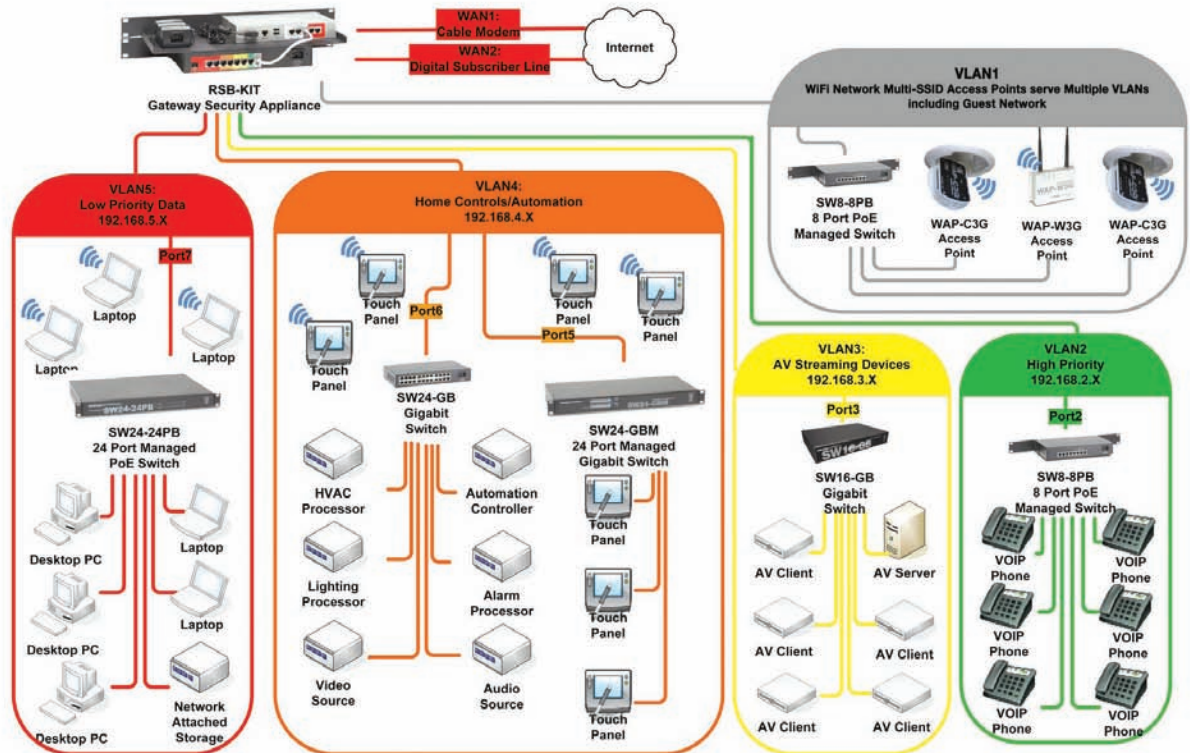
Priority Switch Example



1. Priority switch example using a SW8-GBP

- o 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 fibre 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.

Preconfigured VLAN Networking Equipment



2. AV Bridging example using SW8-GBV or SW24-GBVC - 8 Port Gigabit and 24 Port AV Bridging

- > This device is very similar to the SW8-GBP, however the SW8-GBV or SW24-GBVC will eliminate unnecessary IP broadcast between devices that don't need to communicate with each other all the time.
- > An example layout of the SW24-GBVC controlled network would be the same as the example layout above. Note that the SW8-GBC or SW24-GBVC can only be used with a Pakedge Enterprise Class router or another Pakedge approved router.

PAKEDGE SWITCHES



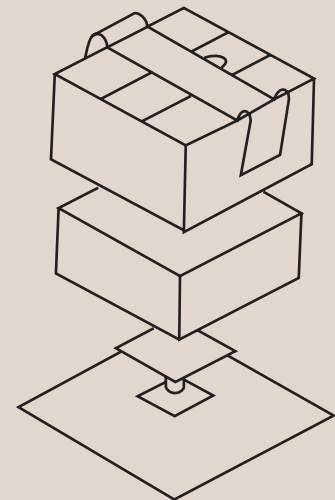
Clean, quiet
and cables are out of sight.

Contact us with any questions or to order.

[HTTP://
WWW.
PAKEDGE
.COM](http://www.pakedge.com)

pakedgedevice&software inc.

1163 Triton Drive
Foster City, CA 94404
Main: 877.274.6100
Fax: 650.685.5520
sales@pakedge.com



creates innovative networking products for people who demand performance, features and reliability. Our products use the most advanced wireless and networking technology and are designed for professionals to install and consumers to enjoy. You'll find our products are easy to **pakedge** device&software.