



**New!** The FriendlyNET GX5 family includes the smart GX5-2400W (top) and GX5-424W (bottom)

“Most of the news in LAN product introductions these days is coming from smaller companies, rather than the big names. Whatever the case, it seems like there have been more new products from network up-and-comers like...**Asante Technologies** than from others.

Asante recently debuted a new model of its most powerful workgroup switch, which now has four ports of Gigabit Ethernet instead of two, in addition to the 24 ports of 10/100M bit/sec Ethernet. It’s called the FriendlyNET GX5-424W 24+4 WebManaged Gigabit Ethernet switch.”

## NetworkWorldFusion

*Asanté Improves Workgroup Switch, November 6, 2003*

# Gigahertz byte bit

For your GHz computer with multi-GB of storage, Asanté offers a complete family of Gigabit Ethernet switches. The FriendlyNET GX5 Series is the simplest, easiest way to move massive amounts of information between computers and peripherals on your local area network. With 8 popular configurations to choose from, Asanté has the exactly the right Gig switch for your needs.

Every GX5 Series switch provides exceptional value for simple, unmanaged Gigabit Ethernet switches that can run at the highest throughput (full wire-speed). The strong metal chassis is optimized for both compact size and to help dissipate heat—providing many years of reliable service.

Asanté's new **GX5-2400W** and **GX5-424W** switches are the smart choices for workgroups with more than 16 users and peripherals. Out of the box, these switches are ready-to-run in almost any environment—with no setup required. To access each switch's advanced features, just open a web browser to enable trunking, mirroring, virtual LANs (VLANs) and quality of service (QoS).

Model	Gigabit Ports	1000BaseT Ports	GBIC	10/100 Ports	Height/Mount	Advanced Features
GX5-2400W	24	24			Yes Desk/Rack	Trunking, mirroring, VLAN, QoS, web configuration
GX5-424W	2	2	2 (SFP)	24	1U Desk/Rack	Trunking, mirroring, VLAN, QoS, web configuration

Model	Gigabit Ports	1000BaseT Ports	GBIC	10/100 Ports	Height	Mounting
GX5-2400	24	24	2 (shared)		1U	Rack or Desktop
GX5-1600	16	16			1U	Rack or Desktop
GX5-800	8	8			1U	Rack or Desktop
GX5-800P	8	8			Sub-1U	Desktop
GX5-500	5	5			Sub-1U	Desktop
GX5-208	2	2		8	1U	Rack or Desktop



"This switch [FriendlyNET GX5-1300] is clearly designed to be a **'drop in and forget it'** solution for infrastructures that do not require flow or access control. There is nothing to configure once you rackmount the unit."

**Mirror Setting**

ID	01												
Sniffer Mode	Rx												
Sniffer Port	Disable												
Source Port	Tx												
	Both	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Port-based VLAN**

ID	Description	Member
01	Default	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
02	Finance3	01 02 03 04 05 25
03	ProdMktg	14 15 16 17 26

**Port Setting**

Please be aware that speed n as link partner. Otherwise, packet loss or link error might occur.

ID	Speed	Flow Control	QoS
04	Auto	Enable	Normal

Buttons: Add Group, Delete Group, Apply

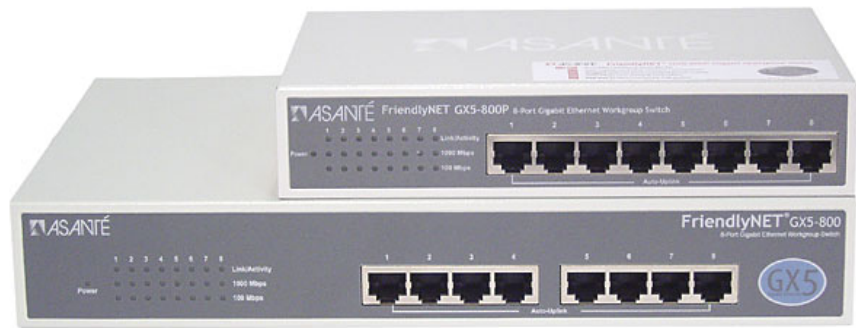
- **Configure with Web Browser.** All features are accessible from an easy-to-use interface. No cryptic command line commands or third-party network management applications required
- **Mirroring.** With a network analyzer (sold separately), look at traffic on other ports; it's ideal for troubleshooting
- **Virtual LANs (VLANs).** Improve overall network performance, manageability and security by limiting organizing computers and peripherals into logical workgroups. Data is delivered only to the intended recipients while broadcast frames are sent only to members of the VLAN (limiting broadcast domain)
- **Quality of Service (QoS).** Efficiently control network resources by classifying traffic and prioritizing flows

All GX5 switches can connect to **10/100** Fast Ethernet devices through some of the Gigabit (1000BaseT) ports. If you have several 10/100 devices, choose a switch (GX5-424W, GX5-208) with dedicated 10/100 ports for a more economical solution.

**Mounting** your network equipment into a rack? Choose a rackmountable GX5 switch (rackmount kit included) and all of your equipment can be neatly stacked and mounted. If you're not using a rack, the switches can also be placed on a desktop.

To add Gigabit Ethernet over fiber, look for switches that include **GBIC** ports, like the GX5-2400 and GX5-424W. Plug in an Asanté or industry-standard module for 1000BaseSX or 1000BaseLX for longer distance connections with maximum reliability. The GX5-424W features small form factor pluggable (SFP) GBIC modules.

# The **Right** Gigabit Switch for Your Network



Two of our most popular switches include the FriendlyNET GX5-800P (top) and GX5-800 (bottom). Both feature compact metal cases and no fan—for quiet operation.

Choosing the right Gigabit Ethernet switch is easy. Asanté has a complete family of switches in the widest range of configurations. The FriendlyNET GX5 family is engineered to give you the most number of Gigabit Ethernet ports for your budget. With our plug-and-go design, you'll spend less time configuring and setting up your network than alternative designs that require network management—and a staff of certified network professionals to manage them for you.



## **FriendlyNET GX5-2400W**

**New!** Introducing Asanté's most powerful Gigabit Ethernet switch. Quickly upgrade your legacy 10/100 Fast Ethernet network by adding the GX5-2400W. Plug in any 10, 100 or 1000BaseT cable and you'll be running in minutes. The switch automatically configures itself for maximum speed, duplex and wiring.

### *Highlights:*

- Wire-speed performance with 48 Gbps switch fabric
- Web configurable for advanced features: trunking, mirroring, virtual LANs (VLANs) and quality of service (QoS)
- Installs easily into 1U of rack space (kit included)



## **FriendlyNET GX5-2400**

With 24 Gigabit ports, this switch certainly packs the most Gig in just 1 rack unit (U) of space. As you upgrade your network from 24-port 10/100 switches to Gigabit Ethernet, the GX5-2400 is the perfect choice for delivering Gigabit to the desktop.

### *Highlights:*

- Ports 23 and 24 are dual media. They support both 1000BaseT and GBIC (for optional fiber)
- Auto Failover if both 1000BaseT and GBIC ports are redundantly connected
- Supports Jumbo Frames for maximum data throughput
- Innovative 24-20-24 Gbps segmented switch fabric. A 10 Gig internal interconnect links two 12-port Gig switch controllers



### FriendlyNET GX5-1600

Asanté's highest-density, Gigabit switch with non-blocking, wire-speed switch fabric. Rated at an impressive 32 Gbps (16 x 2 Gbps, full duplex), this switch provides outstanding performance in a compact, rackmountable chassis.

#### Highlights:

- Non-blocking, wire-speed switch fabric
- All 16 ports support 10/100/1000BaseT
- Similar to Asanté's IntraCore 35160 Series—without management or advanced features



### FriendlyNET GX5-800 and GX5-800P

Asanté's most popular Gigabit switch is now available in 2 configurations: desktop or rackmountable. With the best price/performance and the lowest cost/port, it's a favorite choice for smaller workgroups that are just upgrading to Gigabit Ethernet.

#### Highlights:

- Industrial-grade design with compact metal chassis
- Choice of internal auto-ranging power supply (GX5-800) or external switching power supply (GX5-800P)
- Desktop or rackmountable with included kit (GX5-800 only)
- Convection cooled for silent operation (no fan)
- Non-blocking, wire-speed switch fabric



### FriendlyNET GX5-500

For entry-level workgroups, this is a great choice for starting or expanding your Gigabit Ethernet network. With Auto-Uplink™ on every port, you can easily connect legacy 10/100 computers with newer Gigabit-equipped workstations and servers using standard Cat 5 (or better) cables.

#### Highlights:

- Ultra-compact metal chassis easily fits into small spaces
- Quiet, convection cooling (no fan)
- External modular power supply
- Non-blocking, wire-speed switch fabric



### FriendlyNET GX5-424W

**New!** Does your 10/100 workgroup need better performance? With 24 ports of 10/100 plus 4 ports Gigabit Ethernet, this switch can cost-effectively remove roadblocks in your data throughput.

#### Highlights:

- 24 ports of 10/100BaseTX
- 2 ports of 10/100/1000BaseT
- 2 ports of SFP Mini-GBICs. Add optional fiber modules for greater range and reliability
- High-performance switch fabric minimizes blocking between 10/100 and Gigabit ports



## FriendlyNET GX5-208

Overall Rating: 8.5 (Silver Award)

[Gamershell.com](http://Gamershell.com)

"Two words come to mind when reviewing this product. The first word is **Solid**. The build quality is superb; the switch has a professional, serious look. The product is something you'd be proud showing off in your next LAN party and the diagnostic lights only add to the functionality of this unit.

"The other word is **Quality**. Working with the Asanté reminds me how a company should work. The product works as you expect it to work with the right drivers in place; a manual that tells you exactly what to do; it doesn't have driver glitches or hardware failures, it simply does the job.

"Having the Auto Uplink feature on each port is also a plus, considering you can hook up even larger networks together.

"Performance is much up to par with most Gigabit switches out there, with a slight advantage over the competition. The strongpoint of this product is the delivery perfection; I did not notice any problems, drawbacks, driver issues, it simply works out of the box with no complications. This is an important factor when it comes to networking."

## FriendlyNET GX5-208

Here's the perfect introduction to Gigabit Ethernet. As you upgrade from your legacy 10/100 Fast Ethernet devices, this handy workgroup switch provides dual 1000BaseT Gigabit ports for direct connection to servers or a Gigabit backbone.

### Highlights:

- Auto-Uplink simplifies network cabling and configuration
- Dual Gigabit is an economical solution for expanding a single 1000BaseT network drop in an office—without pulling more wires
- Includes rackmount kit
- Industrial-grade design with compact metal chassis and internal auto-ranging power supply

## SPECIFICATIONS

Model	GX5-2400W	GX5-2400	GX5-1600	GX5-424W
Target Deployment:	Workgroup or backbone	Workgroup or backbone	Workgroup or backbone	Workgroup
Special Features:	VLAN, QoS, Mirroring	Jumbo frames and dual GBICs	High-density, non-blocking design	VLAN, QoS, Mirroring
<b>Ports</b>				
Fast Ethernet:	--	--	--	24
Gigabit Ethernet:	24	24	16	4
10/100/1000BaseT	24	22	16	2
1000BaseT only	--	2	--	--
GBIC	--	2	--	2 (SFP)
Auto-Failover:	--	Ports 23 and 24 (1000T/GBIC)	--	--
Configuration:	Web	--	--	Web
Network Monitoring:	Web, LED	LED panel	LED panel	Web, LED
Expansion (MDI/MDIX):	Auto-Uplink	Auto-Uplink	Auto-Uplink	Auto-Uplink
<b>Performance</b>				
Efficiency:	Non-blocking	Segmented	Non-blocking	Segmented
Switch Fabric:	48 Gbps	24+20+20 Gbps	32 Gbps	12.8 Gbps
Switch Design:	Integrated with web GUI	Dual 12-port with 10 Gbps interconnect	Integrated	Quad Gig, 24p 10/100
Switch Architecture:	Store and forward with integrated broadcast storm filtering	Store and forward with integrated broadcast storm filtering	Store and forward with integrated broadcast storm filtering	Store and forward with integrated broadcast storm filtering
Flow Control:	IEEE 802.3x flow control (full duplex) and back pressure (half-duplex)	IEEE 802.3x flow control (full duplex) and back pressure (half-duplex)	--	IEEE 802.3x flow control (full duplex) and back pressure (half-duplex)
Jumbo Frames:	--	Up to 9 KB	--	--
Forwarding (MAC) Table:	8 K addresses	32 K addresses	8 K addresses	4000 addresses
<b>Physical</b>				
Case:	Full-size, metal Asanté Titanium	Full-size, metal Asanté CoolGray	Full-size, metal Asanté CoolGray	Full-size, metal Asanté Titanium
Color:	Silver			Silver
Height:	1 U	1 U	1 U	1 U
	1.75" / 4.5 cm	1.75" / 4.5 cm	1.75" / 4.5 cm	1.75" / 4.5 cm
Mounting:	Rack or desk	Rack or desk	Rack or desk	Rack or desk
Rackmount Kit:	Included	Included	Included	Included
Width x Length:	17.25 x 10.06"	17.25 x 10.06"	17.25 x 8.26"	17.25 x 10.06"
	43.8 x 25.6 cm	43.8 x 25.6 cm	43.8 x 21.0 cm	43.8 x 25.6 cm
Power Supply:	Internal	Internal	Internal	Internal
	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC
	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz

\* For international part numbers, please refer to the Asanté price list.



With many Mac models now supporting gigabit speeds, it makes sense to look towards a switch that can support slower speeds, such as 10/100 Mbps, but to leave room for also attaching higher-speed devices. The GX5-424W has 24 10/100 ports, and a total of 4 gigabit ports...This device supports **advanced features**, such as web configuration (no proprietary software or cable required) Virtual LAN (VLAN) support, and Quality of Service (QoS) to help prioritize and manage network traffic flow. Some of these features are found in higher-end units, but are included in the GX5-424W.

<b>Model</b>	<b>GX5-208</b>	<b>GX5-500</b>	<b>GX5-800P</b>	<b>GX5-800</b>
Target Deployment:	Legacy workgroup	Workgroup	Workgroup	Workgroup
Special Features:	Dual Gigabit ports with 10/100	Compact design, plug cables into rear	Compact design, external power supply	Rackmountable, rugged internal power supply
<b>Ports</b>				
Fast Ethernet:	8	--	--	--
Gigabit Ethernet:	2	5	8	8
10/100/1000BaseT	2	5	8	8
GBIC	--	--	--	--
Auto-Failover	--	--	--	--
Configuration:	Plug-and-go with IEEE Auto Negotiation (sets 10/100/1000 Mbps speed and half/full duplex)	Plug-and-go with IEEE Auto Negotiation (sets 10/100/1000 Mbps speed and half/full duplex)	Plug-and-go with IEEE Auto Negotiation (sets 10/100/1000 Mbps speed and half/full duplex)	Plug-and-go with IEEE Auto Negotiation (sets 10/100/1000 Mbps speed and half/full duplex)
Network Monitoring:	LED panel	LED panel	LED panel	LED panel
Expansion (MDI/MDIX):	Auto-Uplink	Auto-Uplink	Auto-Uplink	Auto-Uplink
<b>Performance</b>				
Efficiency:	Non-blocking	Non-blocking	Non-blocking	Non-blocking
Switch Fabric:	5.6 Gbps	10 Gbps	16 Gbps	16 Gbps
Switch Design:	Integrated	Integrated	Integrated	Integrated
Switch Architecture:	Store and forward with integrated broadcast storm filtering	Store and forward with integrated broadcast storm filtering	Store and forward with integrated broadcast storm filtering	Store and forward with integrated broadcast storm filtering
Flow Control:	IEEE 802.3x flow control (full duplex) and back pressure (half-duplex)	IEEE 802.3x flow control (full duplex) and back pressure (half-duplex)	IEEE 802.3x flow control (full duplex) and back pressure (half-duplex)	IEEE 802.3x flow control (full duplex) and back pressure (half-duplex)
Jumbo Frames:	No	No	No	No
Cooling Fan:	Yes	No	No	No
Forwarding (MAC) Table:	6 K addresses	8 K addresses	8 K addresses	8 K addresses
<b>Physical</b>				
Case:	Mid-size, metal	Compact, metal	Compact, metal	Compact, metal
Color:	Asanté CoolGray	Asanté CoolGray	Asanté CoolGray	Asanté CoolGray
Height:	1 U	0.6 U	0.9 U	1 U
	1.75" / 4.5 cm	1.15" / 2.9 cm	1.5" / 3.8 cm	1.75" / 4.5 cm
Mounting:	Rack or desk	Desk	Desk	Rack or desk
Rackmount Kit:	Included	--	--	Included
Width x Length:	13 x 8"	6.7 x 3.9"	7.5 x 4.8"	13 x 8"
	28 x 18 cm	17 x 10 cm	19 x 12 cm	28 x 18 cm
Power Supply:	Internal	External	External	Internal
	100-240 VAC			100-240 VAC
	50/60 Hz			50/60 Hz

\* For international part numbers, please refer to the Asanté price list.



Networks Today, May 2003

"The Asanté FriendlyNET GX5-208 Gigabit Switch offers a low price-per-port, high-performance switch that finds a happy place for the networking staff, the accounting staff, and the end-users to meet."

- Performance relatively close to an Enterprise class switch
- Cost per port much lower than an Enterprise class switch
- Auto-Uplink abilities on all ports
- Good set of diagnostic lights to tell you port speed, and duplex

### Standards Compliance

Network: IEEE 802.3ab Gigabit Ethernet over 4 pairs of UTP Category 5 (1000BaseT)  
IEEE 802.3u Fast Ethernet over 2 pairs of UTP Category 5 (100BaseTX)  
IEEE 802.3 Ethernet (10BaseT)

Expansion: Auto-Uplink (MDI/MDIX) on all RJ-45 ports. Uplink to additional switches using standard or crossover cables

### Environmental Range

Operating Temperature: 32° to 104° F (0° to 40° C)  
Relative Humidity: 10% to 95% non-condensing  
Emissions: FCC Class A and CE

### Support

Product Warranty: Two-year product warranty covers defects in manufacturing and workmanship  
Technical Support: Two years of free telephone support plus 24-hour support via web



Stephen C. Holtzman, Chief Technical Officer  
D-ZIGN S.A.B. Inc.  
Saint-Laurent, Quebec, Canada

“As a medium-sized advertisement agency, we move files around that can range in size from 100K to 1.5 Gig. The average printer size file to our Xerox DC12 and Splash G640 printer is about 500 MB. We have been at 100BaseT until we received our new GX5-2400! Not only can **we produce faster**, but this switch moves files beautifully and fast. A simple and elegant purchase that has made our agency smooth as silk!”



Asanté Technologies, Inc. · 821 Fox Lane, San Jose, CA 95131 USA · Phone 408.435.8388 · Website [www.asante.com](http://www.asante.com)

© 2004 Asanté Technologies, Inc. All rights reserved. Asanté Technologies and FriendlyNET are registered trademarks and Auto-Uplink is a trademark of Asanté Technologies, Inc. All other names may be trademarks or registered trademarks of their respective owners. Specifications subject to change without prior notice. 011603 · GX5 Switches\_PLG