

Gigabit / Fast Ethernet Switch

USER'S GUIDE

Twenty-four (24) 100BASE-TX w/ two (2) 1000BASE-T Switch

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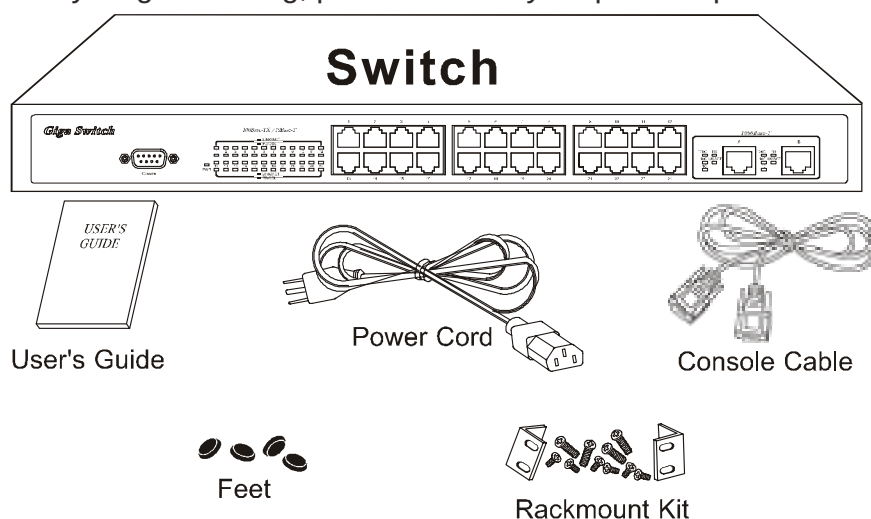
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1 UNPACKING INFORMATION

Thank you for purchasing this Gigabit Switch. Before continuing, please check the contents of the product package. This product package should contain the following items:

- One (1) Switch
- One (1) Power Cord
- One (1) Console Cable
- One (1) Four (4) Rubber Feet (for desktop placement)
- One (1) Rackmount Kit
- This User's Guide

If anything is missing, please contact your place of purchase immediately.



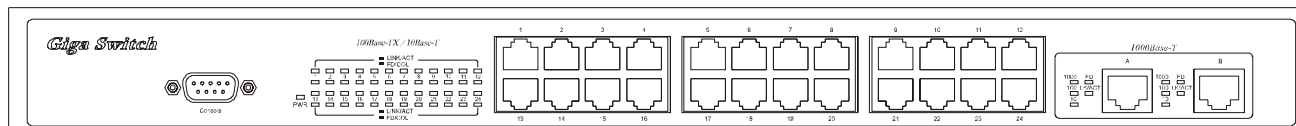
2 PRODUCT INTRODUCTION

2.1 Key Features

- Port-Based VLAN supports up to 8 VLAN groups.
- Built-in Trunking function supports up to 4 Trunking groups.
- 24 ports 100BASE-TX support 100Mbps/10Mbps Full-/Half-Duplex operation.
- Port A,B 1000BASE-T support 1000Mbps/100Mbps/10Mbps Full-Duplex operation.
- Auto-Negotiation support for each TP port.
- Store-and-Forward technology eliminates bad packets.
- 12 Mbytes buffer memory shared.
- IEEE 802.3x Flow Control support for Full-Duplex operation.
- Back-Pressure Flow Control support for Half-Duplex operation.
- 16K MAC address table (max.) quickly pinpoints destination port for each packet.

- All TP ports support automatic MDI cross-over function for all modes of operation.
- CoS supports two priority levels for each port.
- Provides console port for easy configuration.

2.2 The Front Panel



2.2.1 1000BASE-T Ports

1000BASE-T is primarily used for network backbone connections. Each 1000BASE-T support 1000Mbps/100Mbps/10Mbps Full-Duplex mode, which provides an Auto-Negotiation and auto-MDIX functions that sense for the attached device's maximum operating speed and automatically sets the Switch to operate at that speed. Users only need to connect a network cable into any TP port, and the functions will do the rest.

2.2.2 100BASE-TX Ports

Each 100BASE-TX port provides an Auto-Negotiation function that senses 100/10Mbps Full-/Half-Duplex for the attached device's maximum operating speed and automatically sets the Switch to operate at that speed. Users only need to connect a network device into any TP port.

2.2.3 Cabling

Port Type	Cable Type	Connector
1000BASE-T	Cat.5 TP	RJ-45
100BASE-TX	Cat.5 TP	RJ-45
10BASE-T	Category 3, 4 or 5 TP	RJ-45

Note: Category 5 TP cable recommended whenever installing new cabling.

To transmit at 1000Mbps requires Category 5 TP cable using four (4) pair wires.

2.2.4 Status LEDs

This Switch comes with a complete range of LEDs. The table below lists each LEDs name, color and a brief description of its function.

Name	Color	Function
PWR	Green	Lit: Power "On"
Ports 1~24 LINK/ACT	Green	Lit: When the port has a valid physical connection with another device. Blinks: When the port is sending or receiving data (Activity).
Ports 1~24 FD/COL	Amber	Lit: When the port is set to Full-Duplex mode. Blinks: When a collision is detected in Half-Duplex mode.
Ports A,B 1000	Green	Lit: When the port has a valid physical connection with another device at 1000Mbps.

Ports A,B 100	Green	Lit: When the port has a valid physical connection with another device at 100Mbps.
Ports A,B 10	Amber	Lit: When the port has a valid physical connection with another device at 10Mbps.
Ports A,B FD	Green	Lit: When the port is set to Full-Duplex mode.
Ports A,B LK/ACT	Green	Lit: When the port has a valid physical connection with another device. Blink: When the port is sending or receiving data (Activity).

2.3 The Rear Panel



2.3.1 ON/OFF ("Reset") Switch

The power ON/OFF switch is located to the far right of the rear panel - next to the power connector.

To Reset the Switch, turn the power switch "OFF", then "ON".

Note: The Switch must be reset when the MAC address table needs to be rebuilt.

2.3.2 Power Socket

The Power Socket is designed to be used with the power cord included in the product package.

- Attach the female end of the power cord to the male power connector on the back panel.
- Attach the male end of the power cord to a grounded power outlet.

2.3.3 Fan

Note: Please keep the fan area clear, so that the cooling function is not impaired.

3 INSTALLATION

3.1 To Locate the switch on a desktop

- Attach the four (4) rubber feet included in the product package to the bottom of the Switch, one in each corner.
- Place the Switch on a clean, flat desk or tabletop close to a power outlet.
- Plug in all network connections and the power cord.
- Turn the power switch to "On."

3.2 Rackmount placement

- Attach one (1) rackmounting bracket on each side of the Switch front panel and secure each

bracket with the provided screws.

- Use the other provided screws to secure each Switch to the rack.

4 SMART FUNCTION SETTINGS

4.1 Start Smart Function

The Switch has a smart function that you can use to manage your local area network (LAN) more effectively. You also can use the default setting to make the Switch operate as a dumb switch.

If you want to use smart function, install the Switch as below:

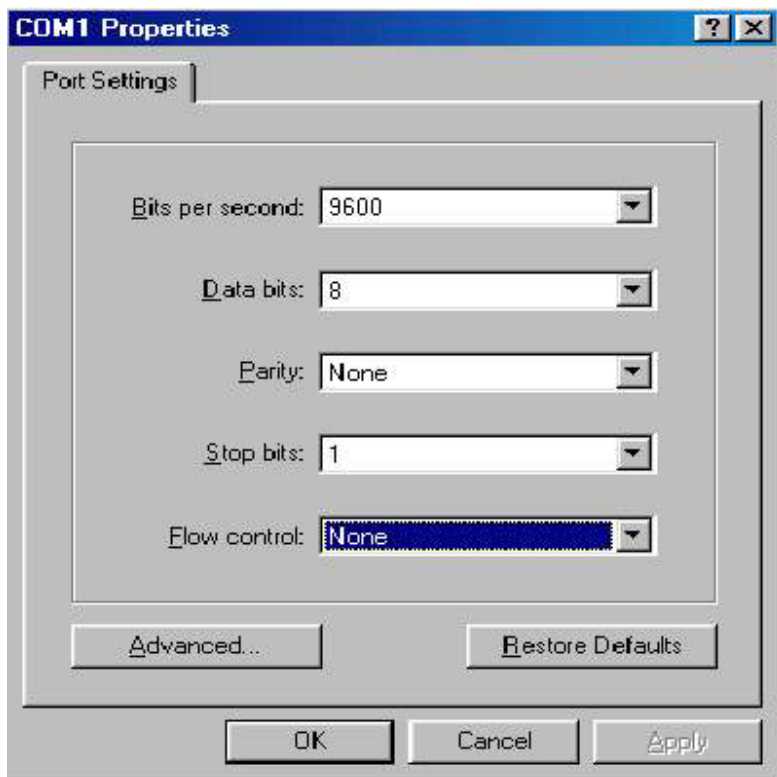
- Use the “RS-232” connector to connect the Switch to a computer. Connect one (1) cable end to the Switch, and connect the other end to the computer’s “COM1” or “COM2” port.

Note: If your Windows program doesn’t have a hyper terminal, you have to install it first.

- Power “ON” the Switch
- Execute the “HyperTerminal” program:

Start Menu → Application Program → Communication → Hyper Terminal

- Setup the connection content of Hyper Terminal:
 - In connection tag, select which “COM” port is used to connect PC and the Switch.
 - Then press the “SETUP” button, set “Bits per second” to **9600**, “Data bits” to **8**, “Parity” to **None**, “Stop bits” to **1**, “Flow control” to **None**.



- After finishing the setting-up action in Hyper Terminal window, press any key to continue. Now the computer can connect to Switch and use the user interface menu to select control function.

5 USE FUNCTION MENU

5.1 Main menu

The main menu function selections are listed below:

1. PORT SETUP
2. VLAN SETUP
3. TRUNKING SETUP
4. PRIORITY SETUP
5. LOAD DEFAULT
6. RESET DEVICE

After you connect the Switch through the console port, the following screen shows up on the monitor:

```
===== 24-PORT 10/100M + 2G SWITCH =====

      1. PORT SETUP

      2. VLAN SETUP

      3. TRUNKING SETUP

      4. PRIORITY SETUP

      5. LOAD DEFAULT

      6. RESET DEVICE

Select(1,2...6)?
```

5.2 PORT SETUP

If you select “1” for “PORT SETUP” from the main menu, you’ll see the menu below:

```

===== Port Current Setting Info =====

      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
  AUTO  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S
100MFDX .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
100MHDX .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
  10MFDX .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
  10MHDX .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

      S=Current Setting

Enter Port Number(1~24):

```

In the “Port Current Setting Info” menu, “S” represents “Current Setting”. The default setting is that all the ports (from 1 to 24) are set to “AUTO”. “AUTO” means Auto-Negotiation for Auto-Detect the connection speed and operation mode.

The table below lists the explanation of the items shown in the menu:

item	explanation
1~24	10/100Mbps port 1 to port 24
S	Current Setting
AUTO	Auto-Negotiation Enable
100MFDX	Force 100Mbps Full-Duplex Mode
100MHDX	Force 100Mbps Half-Duplex Mode
10MFDX	Force 10Mbps Full-Duplex Mode
10MHDX	Force 10Mbps Half-Duplex Mode

Note: If you set up 100MFDX, 100MHDX, 10MFDX or 10MHDX for the port, the device connected to the other end of the cable must be set to the same speed and Duplex modes.

If you select “1” for setting port number 1, you’ll see the menu below:

```

===== Port Current Setting Info =====

      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
    AUTO  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S
100MFDX   .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
100MHDX   .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
 10MFDX   .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
 10MHDX   .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

      S=Current Setting

Enter Port Number(1~24):
-----
Port Selection Items:
1.Auto-Negotiation Enable
2.Force 100M_FDX Mode
3.Force 100M_HDX Mode
4.Force 10M_FDX Mode
5.Force 10M_HDX Mode
6.EXIT
Select(1,2...6)?

```

If you select “2” for “Force 100M_FDX Mode”, you’ll see the menu below:

```

===== Port Current Setting Info =====

      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
    AUTO   .  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S
100MFDX   S  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
100MHDX   .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
 10MFDX   .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
 10MHDX   .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

      S=Current Setting

Enter Port Number(1~24):

```

You can see in the menu above, the current setting of port 1 has been changed from “AUTO” to “100MFDX”, which means you have forced port 1 to operate at 100Mbps Full-Duplex Mode.

You can press “Enter” to EXIT the menu back to main menu.

5.3 VLAN SETUP

In the main menu, If you select “2” for “VLAN SETUP”, you’ll see the menu below:

```

===== Current VLAN GROUP Setting Status =====

VLAN_ID/Switch Port

      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
1  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X
2  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
3  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
4  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
5  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
6  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
7  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
8  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

Enter Port Number(1~24,25,26):

```

The table below lists the explanation of the items shown in the menu:

item	explanation
1~24 (row)	10/100Mbps port 1 to port 24
25,26 (row)	1000Mbps port A, B
1~8 (column)	VLAN group 1 to 8
X	It means the VLAN group assignment of the port

If you select “1” for port 1 setting, you’ll see the menu below:

```

===== Current VLAN GROUP Setting Status =====

VLAN_ID/Switch Port

      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
1  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X
2  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
3  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
4  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
5  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
6  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
7  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
8  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

Enter Port Number(1~24,25,26):1
Enter VLAN Group(1-8):

1. Add Port To VLAN
2. Remove Port From VLAN
3. Exit
  Select(1,2,3)?

```

Now you can modify the VLAN group assignment of port 1 by entering the VLAN group (1~8) that you want to modify. There are 3 choices for the modification and they are listed in the table below:

item	explanation
Add Port To VLAN	Add the selection port to the VLAN group
Remove Port From VLAN	Remove the selection port to from the VLAN group
Exit	Exit this menu

As an example, by entering VLAN group 2 and selecting modification 1, you can see that port 1 is added to VLAN group 2 as shown in the following menu.

```

===== Current VLAN GROUP Setting Status =====

VLAN_ID/Switch Port

      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
1  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X
2  X  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
3  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
4  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
5  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
6  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
7  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
8  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

Enter Port Number(1~24,25,26):

```

5.4 TRUNKING SETUP

Note: *If you need to aggregate ports as a Trunking group, be sure to set these ports in the same VLAN group manually. If you do not set the trunking group ports to the same VLAN group, the Switch will not operate properly.*

If you select “3” for “TRUNKING SETUP” from the main menu, you’ll see the menu below:

```

Current Trunking Port Setup Info:

Trunking Port_1 is disabled
Trunking Port_2 is disabled
Trunking Port_3 is disabled
Trunking Port_4 is disabled

-----
1.Set Trunking Port_1
2.Set Trunking Port_2
3.Set Trunking Port_3
4.Set Trunking Port_4
5.EXIT
Select(1,2...5)?

```

Above the dotted line shows the status of the Trunking Port. Under the dotted line shows 5 selections for your choice. You can select from 1 to 4 to set Trunking Port or 5 to EXIT the

menu.

For example, if you select “1”, “Set Trunking Port_1”, you’ll see the menu below:

Current Trunking Port Setup Info:

Trunking Port_1 is disabled

Trunking Port_2 is disabled

Trunking Port_3 is disabled

Trunking Port_4 is disabled

1.Set Trunking Port_1

2.Set Trunking Port_2

3.Set Trunking Port_3

4.Set Trunking Port_4

5.EXIT

Select(1,2...5)?

-- Trunking Port_1 Setup --

1.Disable Trunking Function.

2.Port 1,13 For Trunking Port_1.

3.Port 1,2,13,14 For Trunking Port_1.

4.Port 1,2,3,4,13,14,15,16 For Trunking Port_1.

5.EXIT.Select(1,2...5)?

If you select “2”, “Port 1,13 For Trunking Port_1”, you’ll see the menu below:

Current Trunking Port Setup Info:

Port 1,13 For Trunking Port_1.

Trunking Port_2 is disabled

Trunking Port_3 is disabled

Trunking Port_4 is disabled

1.Set Trunking Port_1

2.Set Trunking Port_2

3.Set Trunking Port_3

4.Set Trunking Port_4

5.EXIT

Select(1,2...5)?

Now you have set port 1 and 13 as Trunking Port_1.

The table below lists the ports which can be set as a Trunking Port.

Trunking Port_1	Port 1,13
	Port 1,2,13,14
	Port 1,2,3,4,13,14,15,16
Trunking Port_2	Port 5,17
	Port 5,6,17,18
	Port 5,6,7,8,17,18,19,20
Trunking Port_3	Port 9,21
	Port 9,10,21,22
	Port 9,10,11,12,21,22,23,24
Trunking Port_4	Port A,B (G1,G2)

In the menu for Trunking Port_4 setting, it displays G1, G2 as Port A, B.

5.5 PRIORITY SETUP

If you select “4” for “PRIORITY SETUP” from the main menu, you’ll see the menu below:

```

===== Current Port Priority Status =====

 1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

.  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

***** H = HIGH Priority *****

Enter Port Number(1~24,25,26):

```

The table below lists the explanation of the items show up in the menu:

item	explanation
1~24	Port 1 to 24
25,26	Port A,B
H	High Priority

If you select “1” for port 1 setting, you’ll see the menu below:

```

===== Current Port Priority Status =====

 1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

.  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

***** H = HIGH Priority *****

Enter Port Number(1~24,25,26):1

1. SET HIGH PRIORITY
2. SET LOW PRIORITY
3. EXIT
Select(1,2,3)?

```

Now you can set the port 1 as High or Low Priority. The default is Low Priority for all ports. If you select “2”, “SET LOW PRIORITY”, it will not change anything. If you select “1”, “SET HIGH PRIORITY” for port 1, you’ll see the menu below:

```

===== Current Port Priority Status =====

 1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

H  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

***** H = HIGH Priority *****

Enter Port Number(1~24,25,26):

```

Now you can see the port 1 is set to High Priority.

5.6 LOAD DEFAULT

If you select “5” for “LOAD DEFAULT” from the main menu, you’ll see the menu below:

```

Load Default Setting

```

“Load Default Setting” will clear all the settings and restore back to factory settings. Please wait a while, it will go back to the main menu.

5.7 RESET DEVICE

If you select “6” for “RESET DEVICE” from the main menu, it will reset the switch.

6 HELPFUL SUGGESTIONS

6.1 Prior to Installation

Before installing the Switch and connecting network devices, it is important to plan the network's layout. Things you should consider include:

- **Dedicated Bandwidth:** File servers and other high-traffic hardware improve their performance if they have their own dedicated 10Mbps,100Mbps, or 1000Mbps bandwidth.
- **Full-Duplex:** Determine which devices support Full-Duplex connections.
- **Fast Ethernet & Gigabit Ethernet:** Make sure rules for cable lengths and categories are followed. 100BASE-TX and 1000BASE-T have the same rules for cable and distance.
- **Auto-Negotiation:** Devices with different speeds may be easily swapped when the other end of the cable is fixed to a port with Auto-Negotiation.
- **Uplink:** The switch can be uplinked to another switch or hub using each of the 100/10Mbps TP port or the Gigabit Ethernet ports (port A,B) with regular or cross-over cable.

6.2 Fast Ethernet & Gigabit Ethernet

1000BASE-T is called "Gigabit Ethernet". In Gigabit Ethernet, data travels ten times faster (1000Mbps) than in Fast Ethernet (100Mbps).

100BASE-TX is called "Fast Ethernet". In Fast Ethernet, data travels ten times faster (100Mbps) than in traditional Ethernet (10Mbps).

Note: If your 10BASE-T network currently uses Category 5 TP cabling, you can instantly upgrade the network to a 100BASE-TX network by changing network devices.

Note: Both 100BASE-TX and 1000BASE-T use Category 5 TP cabling. But 1000BASE-T must use four pairs twist pair wire. You should check that the Category 5 TP cabling you are using has four pairs wire before you connect to a Gigabit device.

6.3 MAC Address Table

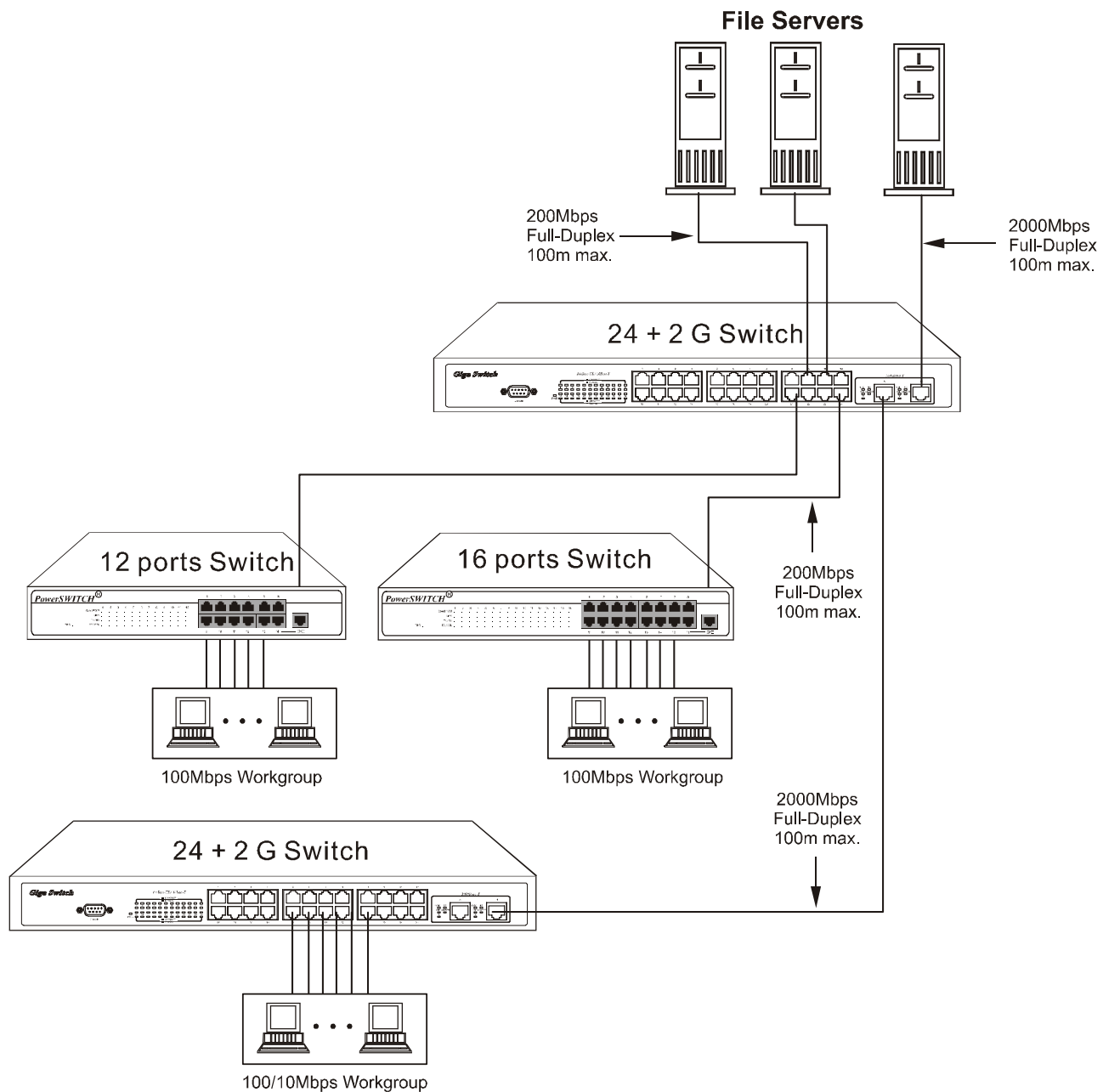
Every Ethernet data packet includes both source and destination addresses. This six (6) bytes ID is called the MAC (Media Access Control) Address.

The Switch can automatically learn and store MAC addresses. However, the MAC address table is volatile: it disappears when the Switch is powered "OFF" or reset.

Note: When the network needs reconfiguration, we recommend turning off the power first. After all nodes have been moved, turn the Switch back "ON" to rebuild the internal MAC address table.

6.4 Sample Application

The optimal application for the Switch is as a "Big-Pipe" backbone interconnecting file servers with bandwidth-hungry workgroups, departments, and offices.



7 Troubleshooting

Link LED does not lit after cable is connected to the port.

- Verify that the other end of the cable is connected to a device that is powered on and on-line.

100BASE-TX port Link LED is lit, Collision LED is blinking, but traffic is irregular.

- Check that the attached device is not set to dedicated Full-Duplex. (Some devices use a physical or software switch to change Duplex modes. Auto-Negotiation may not recognize

this type of Full-Duplex setting).

Note: For any change to DIP switch settings to take effect, the Switch must be turned “OFF”, then “ON” again.

Always check that:

- Cable and link distances are within the network’s specifications
- Overall network diameters are within the network’s specification.

8 Product specifications

Models	24 ports 100BASE-TX w/ 2 1000BASE-T Gigabit Switch
Standards	• 10BASE-T IEEE802.3 • 100BASE-TX IEEE802.3u • 1000BASE-T IEEE802.3ab • Flow Control IEEE802.3x
Ports	• Twenty-four (24) 100BASE-TX • Two (2) 1000BASE-T
Media support	• 10BASE-T: Cat. 3, 4 or 5 TP • 1000BASE-T/100BASE-TX: Cat. 5 TP
Bandwidth	• 1000BASE-T 2000/200/20Mbps • 100BASE-TX 200/100/20/10Mbps
Forwarding/Filtering Rate	• 1488100 packets/second per port@1000Mbps max. • 148810 packets/second per port@100Mbps max. • 14881 packets/second per port@10Mbps max.
Latency	• 2.6μsec@ 1000Mbps min. • 11μsec@100Mbps min. • 75μsec@10Mbps min.
MAC Addresses	• 16K six (6)-bytes entries maximum, Self-Learning
Buffer memory	• 12 Mbytes
Duplex Modes	• Auto-Negotiation
Crossover	• Auto-Crossover function for each port
Switch	• One (1) for Power
LED Indicators	• One (1) for display PWR status For port 1 to 24 (100/10Mbps ports): • One (1) per port for display LINK/ACT status • One (1) per port for display FD/COL status For port A, B (1000/100/10Mbps ports): • One (1) per port for display speed 1000Mbps

	• One (1) per port for display speed 100Mbps • One (1) per port for display speed 10Mbps • One (1) per port for display Full-Duplex • One (1) per port for display LK/ACT status
Power Supply	• Full range Auto-Switching • Input voltage: 100~240 +/-10%V AC/50~60Hz
Power Consumption	• 52.9W max.
Environment	• Operating temp: 0~45°C(32~113°F) • Storage temp: -20~70°C(-4~158°F) • Humidity: 10%~90% non-condensing
Certifications	• FCC Class A • CE Mark
Dimensions	• 440x205x44mm (17.32x8.07x1.73 inches)



FCC WARNING

This equipment has been tested and found to comply with the limits for a Class A computing device pursuant to Part 15 of FCC Rules, which are designed to provide reasonable protection against electromagnetic interference in a commercial environment. Changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE MARK WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
