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P3608 Ethernet Switch
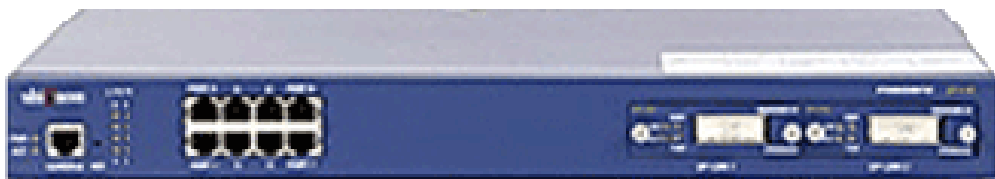# Hardware Installation Guide

Table of Contents

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1 Component check list

Please check the components of the system before starting installation of P3608FG.

Open the box and check if the items below are all included in the box.

- P3608FG System Main Body

- AC INLET CABLE

- Installation Guide and Operator's manual of P3608FG

- Serial cable: To connect to the management terminal

- Brackets and screws for Rack mounting
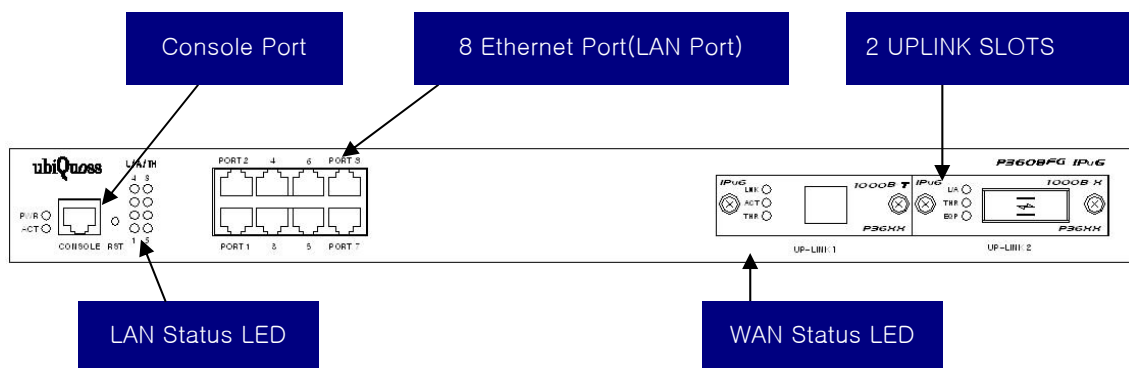
1.1 Front view of System

Figure 1. Front view of P3608FG System

1.2 Ethernet (LAN) Port Block

- This equipment provides Ethernet(LAN) interfaces to be connected to Ethernet ports of previously installed L2 switches for transmission of data.

- This equipment supports total 8 ports of Ethernet(LAN).

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- Each port supports LINK LED, ACT, TH LED.
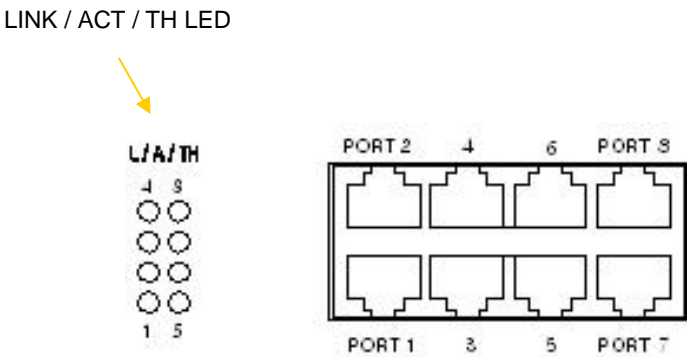
LINK / ACT / TH LED

Figure 2. Ethernet(LAN) Port part

LED	Activity	Function
LINK / ACT / TH	ON (Green)	Normal link status
	ON (RED)	Data Threshold status
	Blink (Green)	Data transmission status
	OFF	Link down status

Table 1. Ethernet(LAN) LED Indicators

1.3 Management and Control Block

- A serial (RS-232) Console port
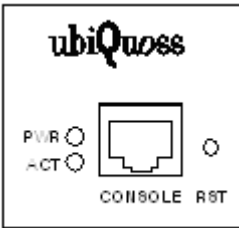
- RESET BUTTON

- PWR / ACT LED

Figure 3. Management and Control Block

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(1) Console Port

The console port is used to connect a console terminal to P3608FG directly for management purpose. The console cable(Serial cable) for connecting between the console port and the console terminal comes with the product. PC or workstation with terminal emulator program installed can be used as a Console Terminal. The following table shows the specification of the console port.

Item		Settings
Specification		UART
Baud rate		9600 bps
Connector type		RJ-45
Terminal Configuration	Data bit	8 bit
	Stop Bit	1 bits
	Parity Bit	None
	Flow Control	None

Table 2. Specification of Console port

(2) RESET BUTTON

The reset button is for cold rebooting of the system. When a cold reboot is required for the system, please press this button using a thin material like a pen or a pin set.

(3) PWR / ACT

The table below summarizes the LEDs for indicating the operation status of the System.

LED	Activity	Function
PWR	ON (Green)	System Power ON
	OFF	System Power OFF
ACT	ON (Green)	System NORMAL 상태
	OFF	System UNNORMAL 상태

Table 3. System operation status LED indicators

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1.4 Uplink Slot

(1) Uplink Slot

P3608FG has two slots of Uplink port to connect to the WAN. Each slot is designed to use the following kinds of module cards.
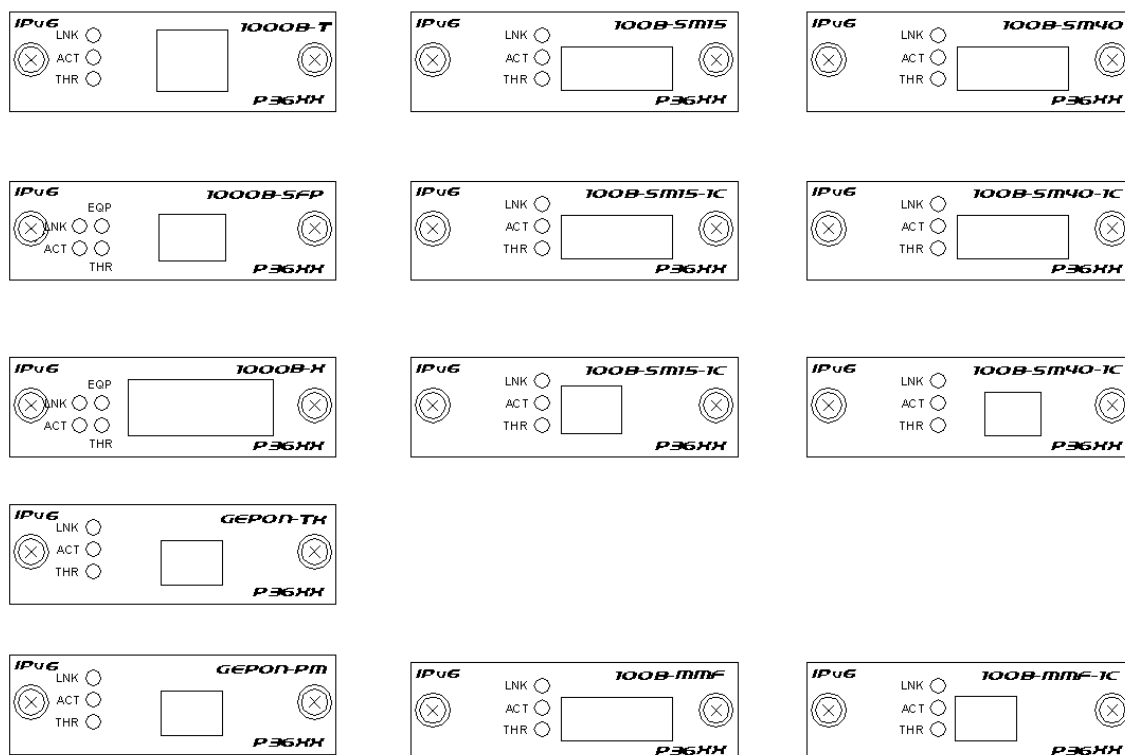

Figure 4. Kinds of Uplink card supported

The following table shows the name of each uplink card and its characteristic and wavelength. Users should identify the type of uplink card and the characteristic and wavelength of the media connected to the network to choose appropriate uplink cards.

Kind of card	Name of Card	Characteristic / Wavelength of media
100B-FX-2CORE	100Base FX MMF	2km multi mode 155Mbps , TX1310nm
	100Base FX SMF15	15km single mode 155Mbps , TX1310nm
	100Base FX SMF40	40km single mode 155Mbps , TX1310nm

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100B-FX-1CORE	100Base FX MMF-1C	2km multi mode 155Mbps，TX1310nm，RX1550nm
	100Base FX SMF15-1C	15km single mode 155Mbps，TX1310nm，RX1550nm
	100Base FX SMF40-1C	40km single mode 155Mbps，TX1310nm，RX1550nm
1000B-X	1000Base SX – GBIC	1.25Gbps GBIC Module , 850nm
	1000Base LX – GBIC	1.25Gbps GBIC Module , 1310nm
1000B-SFP	1000Base X _ SFP	1.25Gbps SFP GBIC Module
1000B-T	1000Base T	1.25Gbps RJ-45 UTP Copper
GE-ONT	GE-PON	GE-PON(Teknovus, Passave)

Table 4. Kinds of card for Uplink Slot

1.5 Rear View of the system

The rear panel of P3608FG consists of power supply AC INLET (110/220 FREE VOLTAGE), screws for chassis grounding, System ON/OFF switch. The following figure shows the rear view of P3608FG.
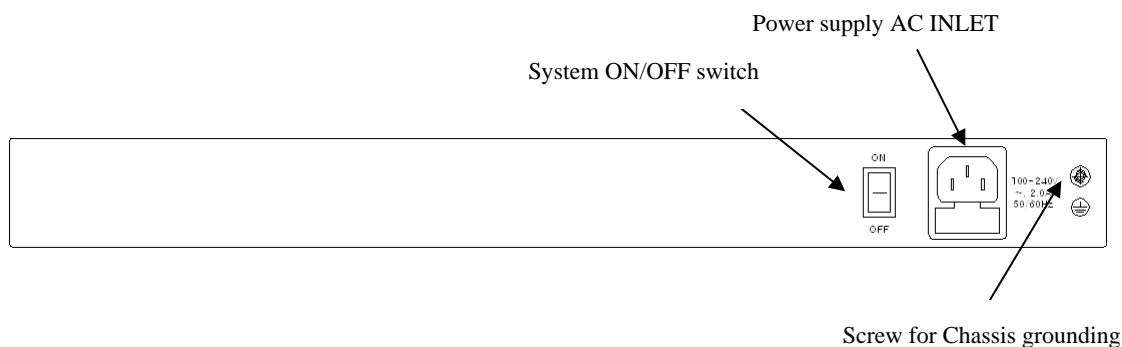

Figure 5.　Rear view of P3608FG

1.5.1 FAN Ventilation Hole

FAN ventilation hole is the part that blows out hot air inside of the equipment. Please pay attention not to block this hole when installing the equipment.

2 Installation Place

P3608FG is the product designed for indoor use. The equipment can be mounted on 19" standard Rack and the brackets for rack mounting are supplied together with the product in the package.

Please pay attention to the following points when installing the equipment.

- Please place the equipment in the location where power supply and cable wiring is convenient.

- Please keep the equipment from water or moisture.

- Please install the equipment in a clean environment where temperature and humidity control is available.

- Please secure enough space behind the equipment not to prevent air flow from the ventilation hole.

- The temperature should be kept 0 °C - 50 °C during the operation of the system.

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3 Installation

For P3608FG, the System main body, power adapter, and all other accessories are packed separately for shipment. Please follow the following steps for installation.

(1) Check the components.

(2) Decide the installation place, and place the P3608FG main body. P3608FG can be mounted on a 19" Rack. When mounting the equipment on a 19" Rack, please fix it to the rack using brackets for P3608FG.

(3) If the equipment is not mounted on the Rack, please install the equipment on the place corresponding to the requirements of "2. Installation Place" section.

(4) Connect power adapter and check power status LED on the front panel to see if the power is being supplied normally.

(5) If system setup or check through console port is needed, please connect the console port to the management terminal.

(6) Once the power is supplied normally, please check if each interface LEDs of P3608FG is working normally.

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4 Console Connection

Operator can manage the system on site by connecting the RJ-45 type console port of P3608FG to the management terminal. The configuration of terminal mode connected to the console port is as follows.

Table 5. Configuration of terminal mode

Item		Settings
Specification		UART
Baud Rate		9600 bps
Connector type		RJ-45
Terminal Configuration	Data Bit	8 bit
	Stop Bit	1 bits
	Parity Bit	None
	Flow Control	None

Terminal Side RS232C Connector
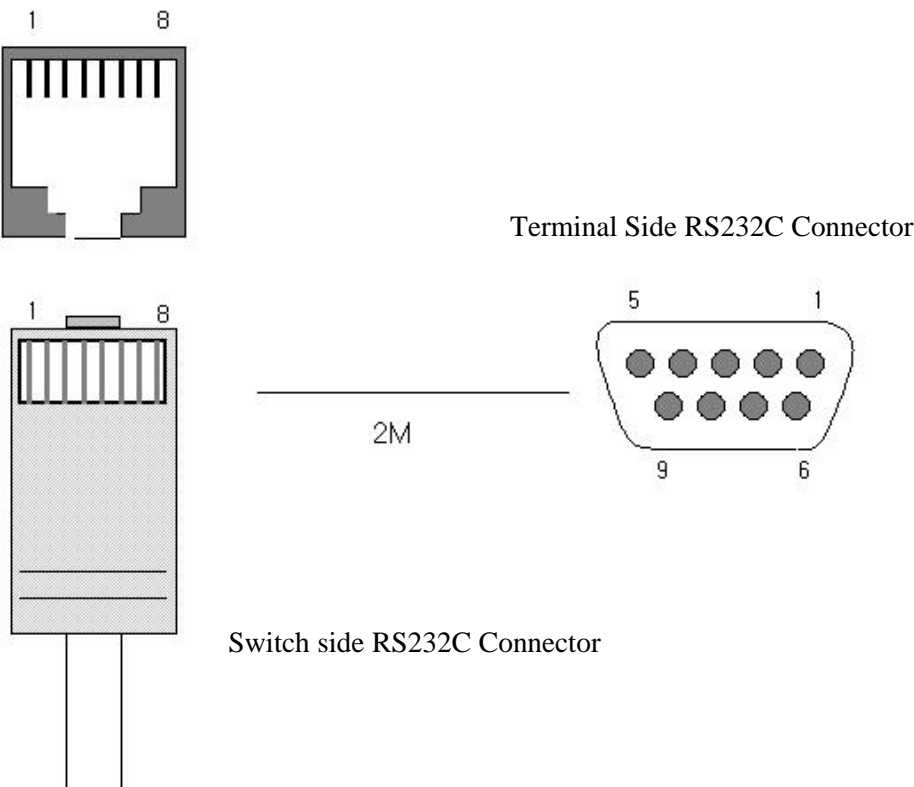
Switch side RS232C Connector

Figure 7. Diagram of Console cable

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5 IP address setup

The operator can change the IP address according to the network configuration.

IP address setup procedure of P3608FG is as follows.

(1) Connect a PC or workstation used as a management terminal to the Console port and run the terminal emulation program (for example, hyper terminal).
(2) If a password input line appears, enter the password and press [Enter] key. The factory default id is "**root**', and the password is "**premier"**.

```
Password : ********
P3608>enable
P3608#
```

(3) If the password is entered correctly, the **P3608FG#** prompt appears.
(4) IP address can also be set up in config terminal mode. To enter into the config terminal mode, please use the following command.

```
P3608# config terminal
P3608(config)#
```

(5) Set the desired IP address along with subnet mask. The following shows an example of setting the IP address to 10.1.13.220.

```
P3608 (config)#int eth0
P3608(config-if-eth0)# ip address 10.1.13.220/24
P3608 (config-if-eth0)#end
```

(6) To view the IP address previously set, the mode should be changed to root mode.
   In a P3608# prompt, please use the following command to check the current IP address
   .

```
P3608# show ip interfaces brief
```

(7) After checking if the IP address is set correctly, please use the following command to save the IP address in the system.

```
P3608# copy running-config startup-config
```

* For CLI menu items, please refer to a separate manual.

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