

**Management Module for XGS3-42000R**

**XGS3-M16C8S**

**Standard Ethernet Module for XGS3-42000R**

**XGS3-S16C8S4X/XGS3-S48G**

**XGS3-S20X2Q/XGS3-S44S4X**

Quick Installation Guide

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## 1. Introduction

PLANET XGS3-42000R is a 4-slot Layer 3 IPv6/IPv4 Routing Chassis Switch, supporting various types of Ethernet modules. It can seamlessly support network interfaces from 100Mbps, or 1000Mbps, to 10Gbps or 40Gbps Ethernet. The list below should include the Ethernet module models:

Model Name	Product Description
XGS3-M16C8S	XGS3-42000R Management Module with 24-port Gigabit (16-port TP/SFP combo + 8-port 100/1000X SFP)
XGS3-S20X2Q	XGS3-42000R Standard Module for XGS3-42000R with 20-port 10G SFP+ + 2-port 40G QSFP+
XGS3-S44S4X	XGS3-42000R Standard Module for XGS3-42000R with 44-port 100/1000BASE-X SFP + 4-port 10G SFP+
XGS3-S16C8S4X	XGS3-42000R Standard Ethernet Module with 24-port Gigabit (16-port TP/SFP combo + 8-port 100/1000X SFP) + 4-port 10G SFP+
XGS3-S48G	XGS3-42000R Standard Ethernet Module with 48-port 10/100/1000Mbps

## 2. Product Specifications

XGS3-42000R Hardware Version 2 Management Module	
Model Name	
Product	XGS3-M16C8S
Hardware Specifications	
Copper Ports	16 10/100/1000BASE-T RJ45 ports
SFP/mini-GBIC Slots	24 100/1000BASE-SX/LX SFP slots
Switch Fabric	48Gbps
Throughput	71.42Mpps@64bytes
LED	System: PWR, RUN, Master, Fan TP Ports: 10/100/1000M LNK/ACT SFP Ports: 100/1000M LNK/ACT
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000BASE-T
XGS3-42000R Allowed Module Slots	Slots 1 and 2

XGS3-42000R Hardware Version 2 Standard Ethernet Modules		
Model Name		
Product	XGS3-S16C8S4X	XGS3-S48G
Hardware Specifications		
Copper Ports	16 10/100/1000BASE-T RJ45 ports	48 10/100/1000BASE-T RJ45 ports
SFP/mini-GBIC Slots	24 100/1000BASE-SX/LX SFP slots, shared with Port 1 to Port 16	--
SFP+/mini-GBIC Slots	4 1/10GBASE-SR/LR SFP+ slots	--
Switch Fabric	128Gbps	96Gbps
Throughput	95Mpps@64bytes	71Mpps@64bytes
LED	System: PWR, RUN TP Ports: 10/100/1000M LNK/ACT SFP Ports: 100/1000M LNK/ACT SFP+ Ports: 1/10G LNK/ACT	TP Ports: 10/100/1000M LNK/ACT
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3u 100BASE-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000T IEEE 802.3ae 10 Gigabit Ethernet	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000T
XGS3-42000R Allowed Module Slots	Slots 2, 3 and 4	

XGS3-42000R Hardware Version 2 Standard Ethernet Modules		
Model Name		
Product	XGS3-S20X2Q	XGS3-S44S4X
Hardware Specifications		
SFP/mini-GBIC Slots	--	44 100/1000BASE-SX/LX SFP slots
SFP+/mini-GBIC Slots	20 1/10GBASE-SR/LR SFP+ slots	4 1/10GBASE-SR/LR SFP+ slots
QSFP+ Slots	2 40GBASE-SR4/LR4 QSFP+ slot	--
Switch Fabric	560Gbps	168Gbps
Throughput	416Mpps@64Bytes	125Mpps@64Bytes
LED	System: PWR, RUN SFP+ Ports: 1/10G LNK/ACT QSFP+ Ports: 40G LNK/ACT	SFP Ports: 100/1000M LNK/ACT SFP+ Ports: 1/10G LNK/ACT
Standards Compliance	IEEE 802.3z Gigabit SX/LX IEEE 802.3ae 10 Gigabit Ethernet IEEE 802.3ba 40 Gigabit Ethernet	IEEE 802.3u 100BASE-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ae 10 Gigabit Ethernet
XGS3-42000R Allowed Module Slots	Slots 2, 3 and 4	

### 3. Management Module Description

#### 3.1 XGS3-M16C8S

The unit's front panel provides a simple interface monitoring the Management Module. Figure 3-1 shows the front panel of the Management Module.

##### XGS3-M16C8S Front Panel



Figure 3-1 XGS3-M16C8S Front Panel

##### ■ Gigabit TP Interface

10/100/1000BASE-T Copper, RJ45 twisted-pair: Up to 100 meters.

##### ■ Gigabit SFP slots

1000BASE-SX/LX mini-GBIC slot, SFP (Small Factor Pluggable) transceiver module: From 550 meters (multi-mode fiber) to 10/30/50/70/120 kilometers (single-mode fiber).

##### ■ Console Port

The console port is an RJ45 type, RS-232 male serial port connector. It is an interface for connecting a terminal directly. Through the console port, it provides rich diagnostic information including IP address setting, factory reset, port management, link status and system setting. Users can use the attached RS-232 cable in the package and connect to the console port on the device. After the connection, users can run any terminal emulation program (Hyper Terminal, ProComm Plus, Telix, Winterm and so on) to enter the startup screen of the device.

Property	Specification
Connector	RJ45 (receptacle)
Connector type	RS-232
Baud rate	9600bps (default)
Supported service	Connects to character terminals Connects to PC serial port and running terminal emulator on PC.

##### ■ USB Interface

The USB port is a USB2.0 type, an interface for uploading/restoring the configuration/firmware.

## ■ Alarm Port

The Alarm port is an RJ45 type, an interface for monitoring the external devices (such as alarm) when monitoring external devices has failed.

## ■ MGMT Port

The MGMT port is an RJ45 type, an independent interface for Telnet or SSH.

## ■ LEDs

The front panel LEDs indicate instant status of port links, data activity, system operation, system power, master and system fan, The system helps to monitor and troubleshoot when needed. Figure 3-2 shows the front panel of the Management Module.

### XGS3-M16C8S LED Indication

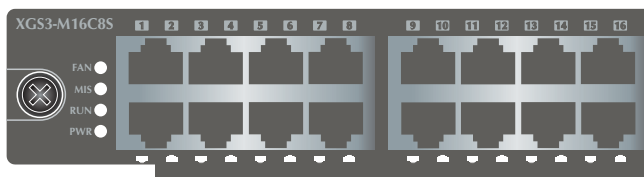


Figure 3-2 XGS3-M16C8S LED Panel

### System

LED	Color	Function
PWR	Green	<b>Lights</b> to indicate that Management Module has power.
	Off	To indicate the Management Module power is off.
RUN	Green	<b>Blinks slowly</b> to indicate that Management Module is running in normal status.
		<b>Blinks fast</b> to indicate that system is loading (Management Module is booting after hot plug in).
	Off	Running Status has failed.
Master	Green	Management Module operates in master mode.
	Off	Management Module operates in slave mode.
Fan	Green	Fan works normally.
	Red	Fan works abnormally.
	Off	Fan is idle.



## 10/100/1000BASE-T Interfaces

LED	Color	Function
LNK/ACT	Green	<b>Lights</b> to indicate the link through that port is successfully established with speed <b>10/100/1000Mbps</b> .
		<b>Blinks</b> to indicate that the Management Module is actively sending or receiving data over that port.
	Off	No data goes through the port.

## 100/1000BASE-X SFP Interfaces

LED	Color	Function
LNK/ACT	Green	<b>Lights</b> to indicate the link through that port is successfully established with speed <b>100/1000Mbps</b> .
		<b>Blinks</b> to indicate that the Management Module is actively sending or receiving data over that port.
	Off	No data goes through the port.

## 4. Standard Ethernet Module Description

### 4.1 XGS3-S16C8S4X

The unit's front panel provides a simple interface monitoring the Standard Module. Figure 4-1 shows the front panel of the Standard Ethernet Module.

#### XGS3-S16C8S4X Front Panel



Figure 4-1 XGS3-S16C8S4X Front Panel

#### ■ Gigabit TP Interface

10/100/1000BASE-T Copper, RJ45 twisted-pair: Up to 100 meters.

#### ■ Gigabit SFP Slots

1000BASE-SX/LX mini-GBIC slot, SFP (Small Factor Pluggable) transceiver module: From 550 meters (multi-mode fiber) to 10/30/50/70/120 kilometers (single-mode fiber).

#### ■ 10 Gigabit SFP+ Slots

10GBASE-SR/LR mini-GBIC slot, SFP+ (10 Gigabit Small Form Factor Pluggable) transceiver module: From 300 meters (multi-mode fiber) to up to 60 kilometers (single-mode fiber).

#### ■ LEDs

The front panel LEDs indicate instant status of port links, data activity, system operation and system power. The system helps to monitor and troubleshoot when needed. Figure 4-2 shows the front panel of the Standard Ethernet Module.

#### XGS3-S16C8S4X LED Indication

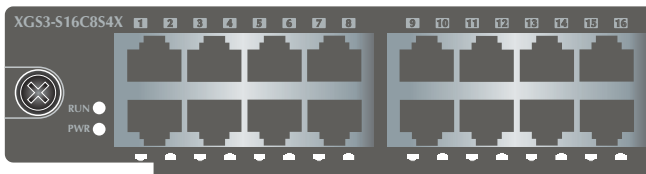


Figure 4-2 XGS3-S16C8S4X LED Panel

## System

LED	Color	Function
PWR	Green	<b>Lights</b> to indicate that Standard Ethernet Module has power.
	Off	To indicate the Standard Ethernet Module power is off.
RUN	Green	<b>Blinks slowly</b> to indicate that Standard Ethernet Module is running in normal status. <b>Blinks fast</b> to indicate that system is loading (Standard Module is booting after hot plug-in).
	Yellow	<b>Lights</b> to indicate that Standard Ethernet Module has shut down.
	Red	<b>Lights</b> to indicate that Standard Ethernet Module has failure.
	Off	Standard Ethernet Module is off and can be pulled out.

## 10/100/1000BASE-T Interfaces

LED	Color	Function
LNK/ACT	Green	<b>Lights</b> to indicate the link through that port is successfully established with speed <b>10/100/1000Mbps</b> .
		<b>Blinks</b> to indicate that the Standard Ethernet Module is actively sending or receiving data over that port.
	Off	No data goes through the port.

## 100/1000BASE-X SFP Interfaces

LED	Color	Function
LNK/ACT	Green	<b>Lights</b> to indicate the link through that port is successfully established with speed <b>100/1000Mbps</b> .
		<b>Blinks</b> to indicate that the Management Module is actively sending or receiving data over that port.
	Off	No data goes through the port.

## 1/10GBASE-X SFP+ Interfaces

LED	Color	Function
LNK/ACT	Green	<b>Lights</b> to indicate the link through that port is successfully established with speed <b>1/10Gbps</b> .
		<b>Blinks</b> to indicate that the Management Module is actively sending or receiving data over that port.
	Off	No data goes through the port.

## 4.2 XGS3-S48G

The unit's front panel provides a simple interface monitoring the Standard Ethernet Module. Figure 4-3 shows the front panel of the Standard Ethernet Module.

### XGS3-S48G Front Panel

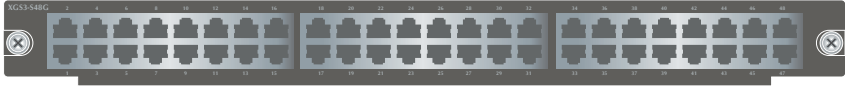


Figure 4-3 XGS3-S48G Front Panel

### ■ Gigabit TP Interface

10/100/1000BASE-T Copper, RJ45 twisted-pair: Up to 100 meters.

### ■ LEDs

The front panel LEDs indicate instant status of port links and data activity. It helps to monitor and troubleshoot when needed. Figure 4-4 shows the front panel of the Standard Ethernet Module.

### XGS3-S48G LED indication

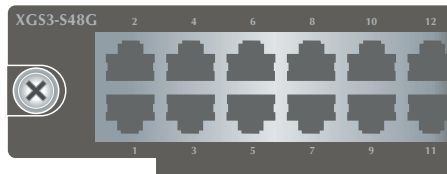


Figure 4-4 XGS3-S48G LED Panel

### 10/100/1000BASE-T Interfaces

LED	Color	Function
LNK/ACT	Green	To indicate the link through that port is successfully established with speed <b>10/100/1000Mbps</b> .
	Yellow	To indicate that the Standard Ethernet Module is actively sending or receiving data over that port.
	Off	No data goes through the port.

### 4.3 XGS3-S20X2Q

The unit's front panel provides a simple interface monitoring the Standard Module. Figure 4-5 shows the front panel of the Standard Ethernet Module.

#### XGS3-S20X2Q Front Panel



Figure 4-5 XGS3-S20X2Q Front Panel

#### ■ Gigabit SFP Slots

100GBASE-SX/LX mini-GBIC slot, SFP (Small Factor Pluggable) transceiver module: From 550 meters (multi-mode fiber) to 10/30/50/70/120 kilometers (single-mode fiber).

#### ■ 10 Gigabit SFP+ Slots

10GBASE-SR/LR mini-GBIC slot, SFP+ (10 Gigabit Small Form Factor Pluggable) transceiver module: From 300 meters (multi-mode fiber) to up to 60 kilometers (single-mode fiber).

#### ■ 40 Gigabit QSFP+ Slots

40GBASE-SR4/LR4 slot, QSFP+ (40 Gigabit Direct Attached Copper Cable: From 0.5 to 2 meters)

#### ■ LEDs

The front panel LEDs indicate instant status of port links, data activity, system operation and system power. The system helps to monitor and troubleshoot when needed. Figure 4-6 shows the front panel of the Standard Ethernet Module.

#### XGS3-S20X2Q LED Indication

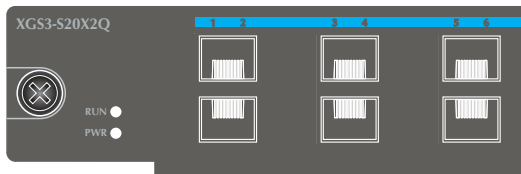


Figure 4-6 XGS3-S20X2Q LED Panel

## System

LED	Color	Function
PWR	Green	<b>Lights</b> to indicate that Standard Ethernet Module has power.
	Off	To indicate the Standard Ethernet Module power is off.
RUN	Green	<b>Blinks slowly</b> to indicate that Standard Ethernet Module is running in normal status.
		<b>Blinks fast</b> to indicate that system is loading (Standard Module is booting after hot plug-in).
	Yellow	<b>Lights</b> to indicate that Standard Ethernet Module has shut down.
	Red	<b>Lights</b> to indicate that Standard Ethernet Module has failed.
	Off	Standard Ethernet Module is off and can be pulled out.

## 1/10GBASE-X SFP+ Interfaces

LED	Color	Function
LNK/ACT	Green	<b>Lights</b> to indicate the link through that port is successfully established with speed <b>1/10Gbps</b> .
		<b>Blinks</b> to indicate that the Management Module is actively sending or receiving data over that port.
	Off	No data goes through the port.

## 40GBASE-X QSFP+ Interfaces

LED	Color	Function
LNK/ACT	Green	<b>Lights</b> to indicate the link through that port is successfully established with speed <b>40Gbps</b> .
		<b>Blinks</b> to indicate that the Management Module is actively sending or receiving data over that port.
	Off	No data goes through the port.

## 4.4 XGS3-S44S4X

The unit front's panel provides a simple interface monitoring the Standard Module. Figure 4-7 shows the front panel of the Standard Ethernet Module.

### XGS3-S44S4X Front Panel



Figure 4-7 XGS3-S44S4X Front Panel

■ Gigabit SFP Slots

1000BASE-SX/LX mini-GBIC slot, SFP (Small Factor Pluggable) transceiver module: From 550 meters (multi-mode fiber) to 10/30/50/70/120 kilometers (single-mode fiber).

■ 10 Gigabit SFP+ Slots

10GBASE-SR/LR mini-GBIC slot, SFP+ (10 Gigabit Small Form Factor Pluggable) transceiver module: From 300 meters (multi-mode fiber) to up to 60 kilometers (single-mode fiber). LEDs The front panel LEDs indicate instant status of port links, data activity, system operation and system power. The system helps to monitor and troubleshoot when needed. Figure 4-8 shows the front panel of the Standard Ethernet Module.

**XGS3-S44S4X LED Indication**

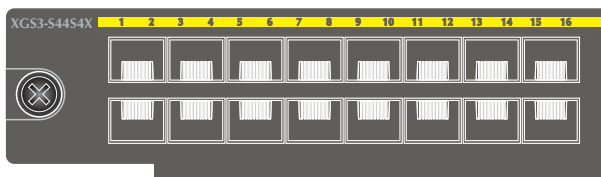


Figure 4-8 XGS3-S44S4X LED Panel

**100/1000BASE-X SFP Interfaces**

LED	Color	Function
LNK/ACT	Green	<b>Lights</b> to indicate the link through that port is successfully established with speed <b>100/1000Mbps.</b>
		<b>Blinks</b> to indicate that the Management Module is actively sending or receiving data over that port.
	Off	No data goes through the port.

**1/10GBASE-X SFP+ Interfaces**

LED	Color	Function
LNK/ACT	Green	<b>Lights</b> to indicate the link through that port is successfully established with speed <b>1/10Gbps.</b>
		<b>Blinks</b> to indicate that the Management Module is actively sending or receiving data over that port.
	Off	No data goes through the port.

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## ***Customer Support***

Thank you for purchasing PLANET products. You can browse our online FAQ resource at PLANET Website first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQ :

<http://www.planet.com.tw/en/support/faq.php?type=1>

Switch support team mail address :

[support\\_switch@planet.com.tw](mailto:support_switch@planet.com.tw)

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