



SBM-25G-P10 PASS-THRU MODULE



USER'S MANUAL

Revision 1.1

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Manual Revision 1.1

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Preface

About this Manual

This manual is written for professional system integrators and PC technicians. It provides information for the installation and use of this module. Installation and maintenance should be performed by experienced technicians only.

Notes

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Warning! Indicates important information given to prevent equipment/property damage or personal injury.



Warning! Indicates high voltage may be encountered when performing a procedure.

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SuperBlade Pass-Thru Module

1 Overview

The Supermicro SBM-25G-P10 Pass-Thru Module is designed for Supermicro SuperBlade enclosures for high performance datacenter traffic application usage. It is compatible with the SuperBlade 8U (SBE-820J), 6U (SBE-610J), and 4U (SBE-414E) enclosures. Up to four modules can be used in the 8U or 6U enclosure, and up to two in the 4U enclosure.

The Pass-Thru module leverages the existing network infrastructure to provide direct network connectivity between the blade servers and the external Top of Rack (ToR) switches using five external QSFP28 ports. The module can support both 10G and 25G speed blade servers on its internal ports. The five QSFP28 external ports can accept QSFP28 DAC, DAC breakout cables and QSFP28 fiber transceiver modules for the external network connectivity.

The module provides a one-to-one connectivity from the internal blade server ports to the external QSFP28 Ports.

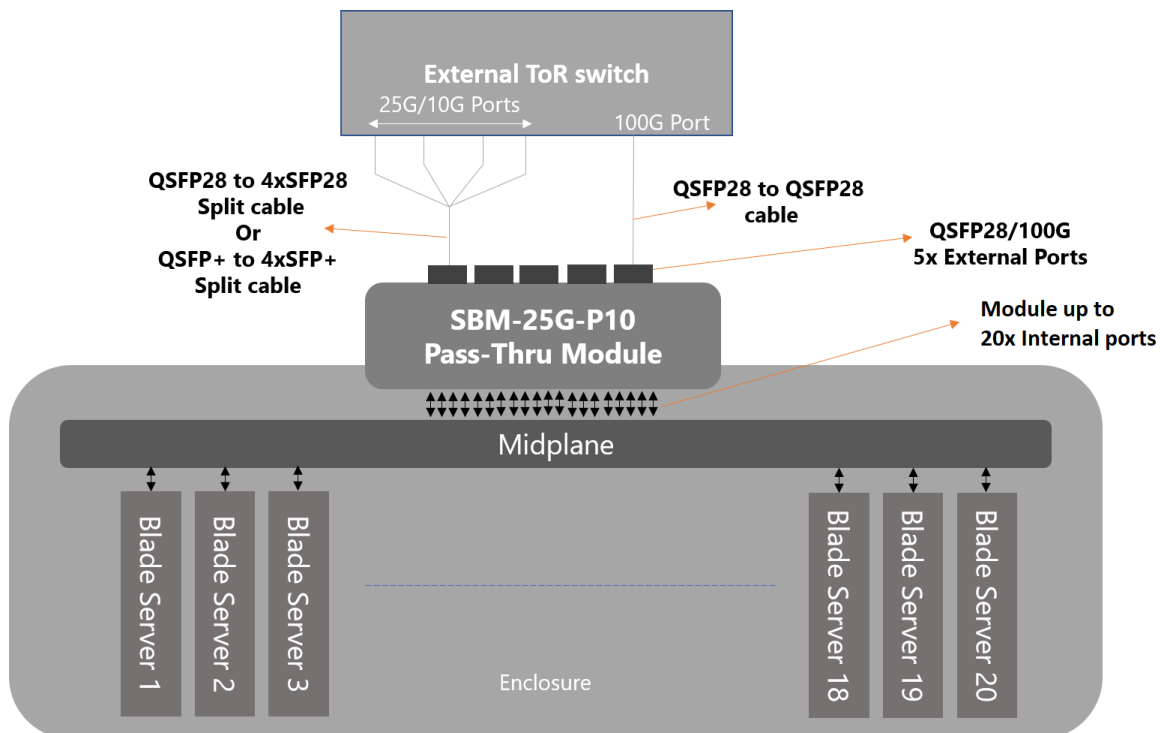


Figure 1. Pass-Thru Function

2 Features

- Twenty internal 25G/10G downlink ports mapped from server node to external QSFP connection
- Up to twenty external 25G/10G uplink ports through the five QSFP28 ports
- Auto-configuration of the port speed
- Minimal configuration and management through the Chassis Management Module (CMM)

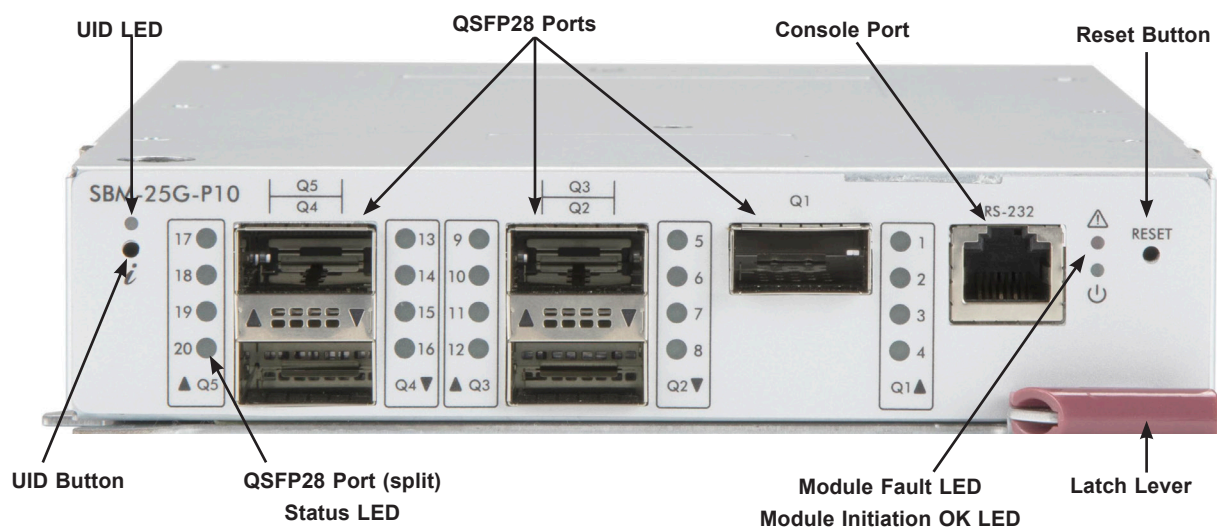


Figure 2. Front View

Module Front Features	
Item	Description
QSFP28 Ports	Ports accept QSFP28 Direct Attach Cable (DAC) or QSFP28 transceiver modules
Console Port	RJ45, usually for debug logs
UID LED	Unit ID indicator; can be activated from CMM
QSFP28 Port Status LED	Indicates port linkup
Module Fault LED	Module has either failed POST or has detected an operational fault within the module
Module Initiation OK LED	Module is operational and has passed the POST with no critical faults
Latch Lever	Used to physically install or uninstall the module

3 Management

The SBM-25G-P10 module is managed through the CMM module web interface. It supports the upload of configuration files, as described later in this manual. Note that CMM version 3.55 or later is required.

The module can be connected to any computer using the RS-232 Console port. This is generally used to collect debug logs for the Supermicro Technical Support team. The computer COM port settings should be:

Baudrate: 115200
Data: 8 bit
bit Parity: none
Stop: 1 bit
Flow Control: none

Using the CMM Module web interface, the user can perform the below tasks on the pass-thru module.

- Reset
- Configure management IP (Static/DHCP)
- Configuration upload
- Firmware upgrade

4 Port Mapping

The port mapping between the blade server and the switch external port varies depending on the model of the enclosure. The on-board dual port NIC card and the optional add-on mezzanine card with dual ports have internal mapping to the pass-thru module as shown below.

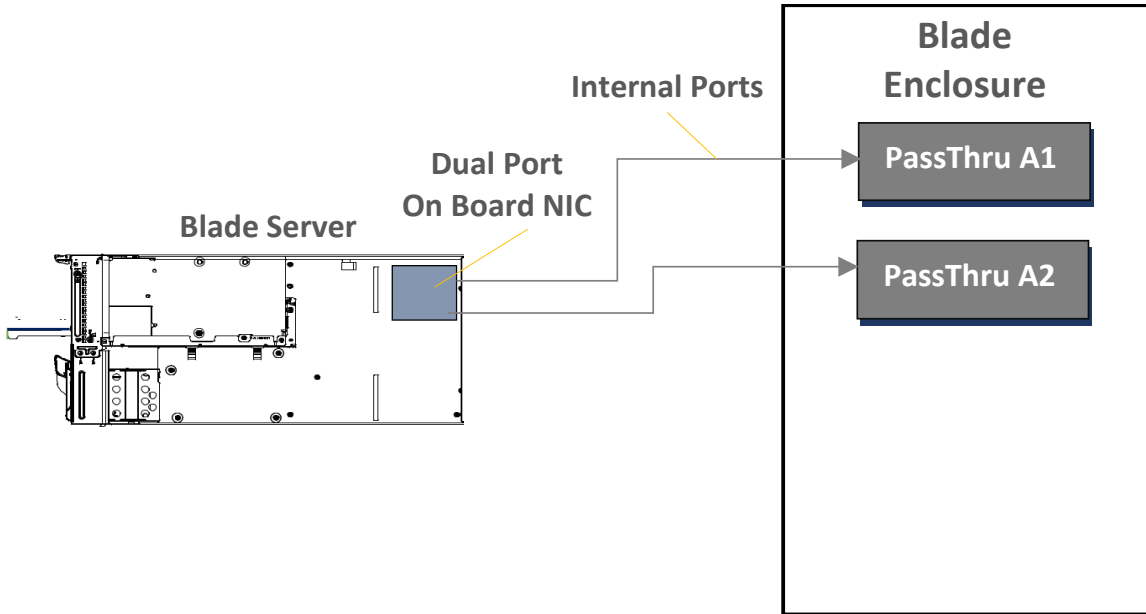


Figure 3. Blade Server with On-Board NIC Connection

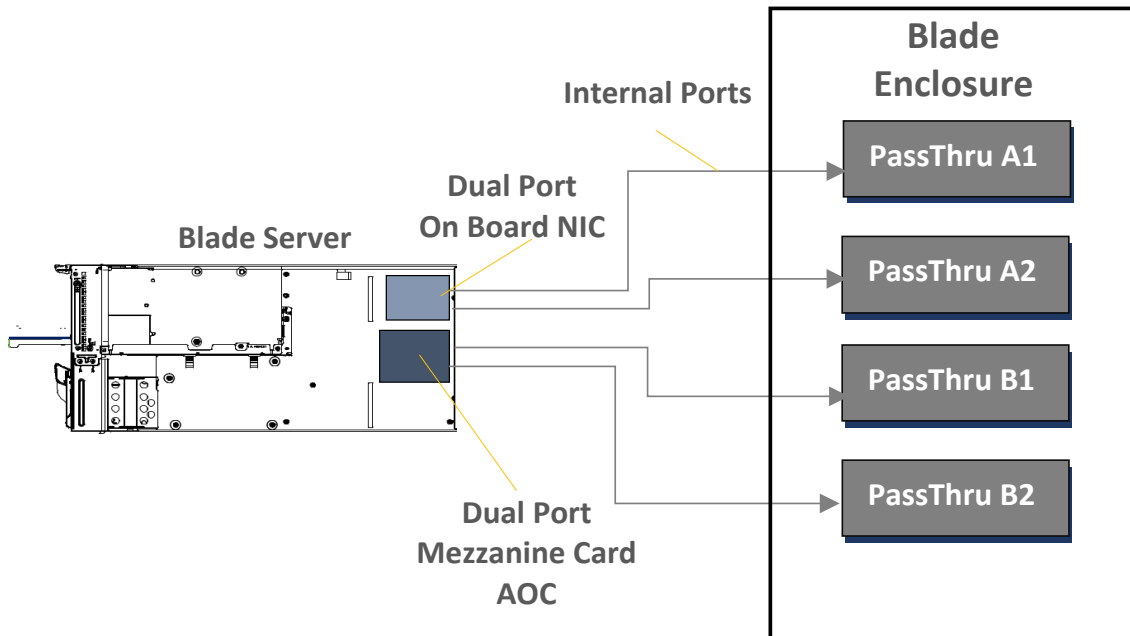


Figure 4. Blade Server with On-Board and AOC Mezzanine Card NIC Connection

Internal to External Port Mapping Tables

In the tables below, the following identifiers are used:

Module Slot – A1, A2, B1 and B2 refer to the modules and their slot number. (Shown for the SBE-610J enclosure with four pass-thru modules.)



Figure 5. Four Pass-Thru Modules Labeled

External Port – Q1 to Q5 refer to the external QSFP28 ports on the pass-thru module.

External Port LED – This is the QSFP28 (Q1 to Q5) port LED number (split) on the module front panel.

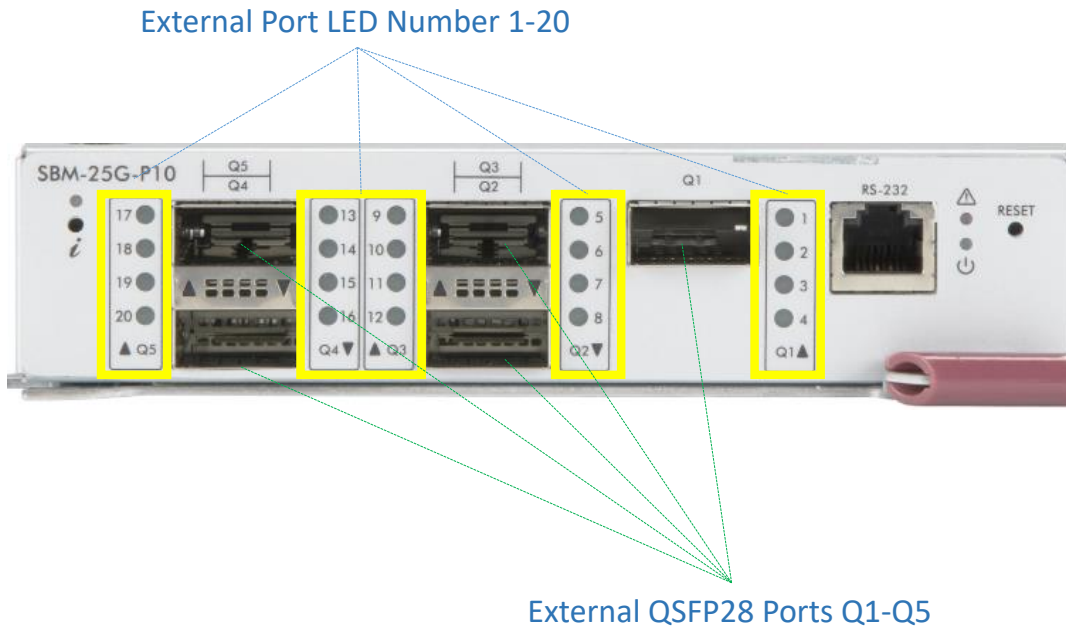


Figure 6. External Ports Labeled

Cable Link – When using a split cable, normally each vendor's QSFP28 to 4xSFP28 cables have labels printed on their 4xSFP28 split cables with either A, B, C and D or 1, 2, 3 and 4 to represent the cable. The column addresses both the specifications with, example A/1 (A or 1).

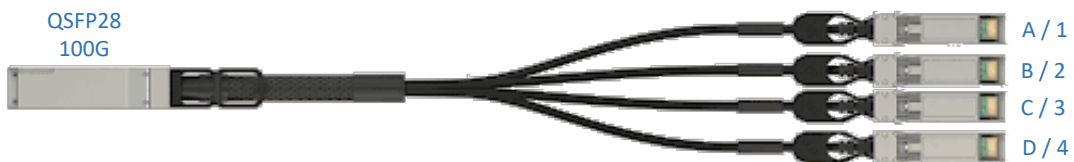


Figure 7. Split Cable Labeled

Mapping for SBE-820J/SBE-820J2 Four Pass-Thru Modules Installed

Blade Slot	NIC	Port Mapping			
		Module Slot	External Port	External Port LED Number	Cable Link
A1	On Board - NIC 1	A1	Q3	11	C / 3
	On Board - NIC 2	A2	Q5	19	C / 3
	Mezzanine - NIC 3	B1	Q1	2	B / 2
	Mezzanine - NIC 4	B2	Q1	2	B / 2
A2	On Board - NIC 1	A1	Q4	13	A / 1
	On Board - NIC 2	A2	Q5	17	A / 1
	Mezzanine - NIC 3	B1	Q1	4	D / 4
	Mezzanine - NIC 4	B2	Q1	4	D / 4
A3	On Board - NIC 1	A1	Q4	15	C / 3
	On Board - NIC 2	A2	Q4	15	C / 3
	Mezzanine - NIC 3	B1	Q2	6	B / 2
	Mezzanine - NIC 4	B2	Q2	6	B / 2
A4	On Board - NIC 1	A1	Q5	19	C / 3
	On Board - NIC 2	A2	Q4	13	A / 1
	Mezzanine - NIC 3	B1	Q2	8	D / 4
	Mezzanine - NIC 4	B2	Q2	8	D / 4
A5	On Board - NIC 1	A1	Q5	17	A / 1
	On Board - NIC 2	A2	Q3	11	C / 3
	Mezzanine - NIC 3	B1	Q3	10	B / 2
	Mezzanine - NIC 4	B2	Q3	10	B / 2
A6	On Board - NIC 1	A1	Q3	9	A / 1
	On Board - NIC 2	A2	Q1	3	C / 3
	Mezzanine - NIC 3	B1	Q3	12	D / 4
	Mezzanine - NIC 4	B2	Q3	12	D / 4
A7	On Board - NIC 1	A1	Q2	7	C / 3
	On Board - NIC 2	A2	Q1	1	A / 1
	Mezzanine - NIC 3	B1	Q4	14	B / 2
	Mezzanine - NIC 4	B2	Q4	14	B / 2
A8	On Board - NIC 1	A1	Q2	5	A / 1
	On Board - NIC 2	A2	Q2	5	A / 1
	Mezzanine - NIC 3	B1	Q4	16	D / 4
	Mezzanine - NIC 4	B2	Q4	16	D / 4
A9	On Board - NIC 1	A1	Q1	3	C / 3
	On Board - NIC 2	A2	Q2	7	C / 3
	Mezzanine - NIC 3	B1	Q5	18	B / 2
	Mezzanine - NIC 4	B2	Q5	18	B / 2
A10	On Board - NIC 1	A1	Q1	1	A / 1
	On Board - NIC 2	A2	Q3	9	A / 1
	Mezzanine - NIC 3	B1	Q5	20	D / 4
	Mezzanine - NIC 4	B2	Q5	20	D / 4

Blade Slot	NIC	Port Mapping			
		Module Slot	External Port	External Port LED Number	Cable Link
B1	On Board - NIC 1	A1	Q5	20	D / 4
	On Board - NIC 2	A2	Q5	20	D / 4
	Mezzanine - NIC 3	B1	Q3	9	A / 1
	Mezzanine - NIC 4	B2	Q1	1	A / 1
B2	On Board - NIC 1	A1	Q5	18	B / 2
	On Board - NIC 2	A2	Q5	18	B / 2
	Mezzanine - NIC 3	B1	Q2	7	C / 3
	Mezzanine - NIC 4	B2	Q1	3	C / 3
B3	On Board - NIC 1	A1	Q4	16	D / 4
	On Board - NIC 2	A2	Q4	16	D / 4
	Mezzanine - NIC 3	B1	Q2	5	A / 1
	Mezzanine - NIC 4	B2	Q2	5	A / 1
B4	On Board - NIC 1	A1	Q4	14	B / 2
	On Board - NIC 2	A2	Q4	14	B / 2
	Mezzanine - NIC 3	B1	Q1	1	A / 1
	Mezzanine - NIC 4	B2	Q2	7	C / 3
B5	On Board - NIC 1	A1	Q3	12	D / 4
	On Board - NIC 2	A2	Q3	12	D / 4
	Mezzanine - NIC 3	B1	Q1	3	C / 3
	Mezzanine - NIC 4	B2	Q3	9	A / 1
B6	On Board - NIC 1	A1	Q3	10	B / 2
	On Board - NIC 2	A2	Q3	10	B / 2
	Mezzanine - NIC 3	B1	Q3	11	C / 3
	Mezzanine - NIC 4	B2	Q5	17	A / 1
B7	On Board - NIC 1	A1	Q2	8	D / 4
	On Board - NIC 2	A2	Q2	8	D / 4
	Mezzanine - NIC 3	B1	Q4	13	A / 1
	Mezzanine - NIC 4	B2	Q5	19	C / 3
B8	On Board - NIC 1	A1	Q2	6	B / 2
	On Board - NIC 2	A2	Q2	6	B / 2
	Mezzanine - NIC 3	B1	Q4	15	C / 3
	Mezzanine - NIC 4	B2	Q4	15	C / 3
B9	On Board - NIC 1	A1	Q1	4	D / 4
	On Board - NIC 2	A2	Q1	4	D / 4
	Mezzanine - NIC 3	B1	Q5	17	A / 1
	Mezzanine - NIC 4	B2	Q4	13	A / 1
B10	On Board - NIC 1	A1	Q1	2	B / 2
	On Board - NIC 2	A2	Q1	2	B / 2
	Mezzanine - NIC 3	B1	Q5	19	C / 3
	Mezzanine - NIC 4	B2	Q3	11	C / 3

Mapping for SBE-610J/SBE-610J2 Four Pass-Thru Modules Installed

Blade Slot	NIC	Port Mapping			
		Module Slot	External Port	External Port LED Number	Cable Link
A1	On Board - NIC 1	A1	Q3	10	B / 2
	On Board - NIC 2	A2	Q3	10	B / 2
	Mezzanine - NIC 3	B1	Q1	1	A / 1
	Mezzanine - NIC 4	B2	Q1	1	A / 1
A2	On Board - NIC 1	A1	Q3	9	A / 1
	On Board - NIC 2	A2	Q3	9	A / 1
	Mezzanine - NIC 3	B1	Q1	2	B / 2
	Mezzanine - NIC 4	B2	Q1	2	B / 2
A3	On Board - NIC 1	A1	Q2	8	D / 4
	On Board - NIC 2	A2	Q2	8	D / 4
	Mezzanine - NIC 3	B1	Q1	3	C / 3
	Mezzanine - NIC 4	B2	Q1	3	C / 3
A4	On Board - NIC 1	A1	Q2	7	C / 3
	On Board - NIC 2	A2	Q2	7	C / 3
	Mezzanine - NIC 3	B1	Q1	4	D / 4
	Mezzanine - NIC 4	B2	Q1	4	D / 4
A5	On Board - NIC 1	A1	Q2	6	B / 2
	On Board - NIC 2	A2	Q2	6	B / 2
	Mezzanine - NIC 3	B1	Q2	5	A / 1
	Mezzanine - NIC 4	B2	Q2	5	A / 1
A6	On Board - NIC 1	A1	Q2	5	A / 1
	On Board - NIC 2	A2	Q2	5	A / 1
	Mezzanine - NIC 3	B1	Q2	6	B / 2
	Mezzanine - NIC 4	B2	Q2	6	B / 2
A7	On Board - NIC 1	A1	Q1	4	D / 4
	On Board - NIC 2	A2	Q1	4	D / 4
	Mezzanine - NIC 3	B1	Q2	7	C / 3
	Mezzanine - NIC 4	B2	Q2	7	C / 3
A8	On Board - NIC 1	A1	Q1	3	C / 3
	On Board - NIC 2	A2	Q1	3	C / 3
	Mezzanine - NIC 3	B1	Q2	8	D / 4
	Mezzanine - NIC 4	B2	Q2	8	D / 4
A9	On Board - NIC 1	A1	Q1	2	B / 2
	On Board - NIC 2	A2	Q1	2	B / 2
	Mezzanine - NIC 3	B1	Q3	9	A / 1
	Mezzanine - NIC 4	B2	Q3	9	A / 1
A10	On Board - NIC 1	A1	Q1	1	A / 1
	On Board - NIC 2	A2	Q1	1	A / 1
	Mezzanine - NIC 3	B1	Q3	10	B / 2
	Mezzanine - NIC 4	B2	Q3	10	B / 2

Mapping for MBE-620E with Two Pass-Thru Modules Installed

Blade Slot	NIC	Port Mapping			
		Module Slot	External Port	External Port LED Number	Cable Link
A1	On Board - NIC 1	A1	Q5	20	D / 4
	On Board - NIC 2	A2	Q1	1	A / 1
A2	On Board - NIC 1	A1	Q5	18	B / 2
	On Board - NIC 2	A2	Q1	3	C / 3
A3	On Board - NIC 1	A1	Q4	16	D / 4
	On Board - NIC 2	A2	Q2	5	A / 1
A4	On Board - NIC 1	A1	Q4	14	B / 2
	On Board - NIC 2	A2	Q2	7	C / 3
A5	On Board - NIC 1	A1	Q3	12	D / 4
	On Board - NIC 2	A2	Q3	9	A / 1
A6	On Board - NIC 1	A1	Q3	10	B / 2
	On Board - NIC 2	A2	Q3	11	C / 3
A7	On Board - NIC 1	A1	Q2	8	D / 4
	On Board - NIC 2	A2	Q4	13	A / 1
A8	On Board - NIC 1	A1	Q2	6	B / 2
	On Board - NIC 2	A2	Q4	15	C / 3
A9	On Board - NIC 1	A1	Q1	4	D / 4
	On Board - NIC 2	A2	Q5	17	A / 1
A10	On Board - NIC 1	A1	Q1	2	B / 2
	On Board - NIC 2	A2	Q5	19	C / 3
B1	On Board - NIC 1	A1	Q1	1	A / 1
	On Board - NIC 2	A2	Q5	20	D / 4
B2	On Board - NIC 1	A1	Q1	3	C / 3
	On Board - NIC 2	A2	Q5	18	B / 2
B3	On Board - NIC 1	A1	Q2	5	A / 1
	On Board - NIC 2	A2	Q4	16	D / 4
B4	On Board - NIC 1	A1	Q2	7	C / 3
	On Board - NIC 2	A2	Q4	14	B / 2
B5	On Board - NIC 1	A1	Q3	9	A / 1
	On Board - NIC 2	A2	Q3	12	D / 4
B6	On Board - NIC 1	A1	Q3	11	C / 3
	On Board - NIC 2	A2	Q3	10	B / 2
B7	On Board - NIC 1	A1	Q4	13	A / 1
	On Board - NIC 2	A2	Q2	8	D / 4
B8	On Board - NIC 1	A1	Q4	15	C / 3
	On Board - NIC 2	A2	Q2	6	B / 2
B9	On Board - NIC 1	A1	Q5	17	A / 1
	On Board - NIC 2	A2	Q1	4	D / 4
B10	On Board - NIC 1	A1	Q5	19	C / 3
	On Board - NIC 2	A2	Q1	2	B / 2

Mapping for SBE-414E/SBE-414J with Two Pass-Thru Modules Installed

Blade Slot	NIC	Port Mapping			
		Module Slot	External Port	External Port LED Number	Cable Link
A1	On Board - NIC 1	A1	Q4	14	B / 2
	On Board - NIC 2	A2	Q4	14	B / 2
A2	On Board - NIC 1	A1	Q4	13	A / 1
	On Board - NIC 2	A2	Q4	13	A / 1
A3	On Board - NIC 1	A1	Q3	12	D / 4
	On Board - NIC 2	A2	Q3	12	D / 4
A4	On Board - NIC 1	A1	Q3	11	C / 3
	On Board - NIC 2	A2	Q3	11	C / 3
A5	On Board - NIC 1	A1	Q3	10	B / 2
	On Board - NIC 2	A2	Q3	10	B / 2
A6	On Board - NIC 1	A1	Q3	9	A / 1
	On Board - NIC 2	A2	Q3	9	A / 1
A7	On Board - NIC 1	A1	Q2	8	D / 4
	On Board - NIC 2	A2	Q2	8	D / 4
A8	On Board - NIC 1	A1	Q2	7	C / 3
	On Board - NIC 2	A2	Q2	7	C / 3
A9	On Board - NIC 1	A1	Q2	6	B / 2
	On Board - NIC 2	A2	Q2	6	B / 2
A10	On Board - NIC 1	A1	Q2	5	A / 1
	On Board - NIC 2	A2	Q2	5	A / 1
A11	On Board - NIC 1	A1	Q1	4	D / 4
	On Board - NIC 2	A2	Q1	4	D / 4
A12	On Board - NIC 1	A1	Q1	3	C / 3
	On Board - NIC 2	A2	Q1	3	C / 3
A13	On Board - NIC 1	A1	Q1	2	B / 2
	On Board - NIC 2	A2	Q1	2	B / 2
A14	On Board - NIC 1	A1	Q1	1	A / 1
	On Board - NIC 2	A2	Q1	1	A / 1

5 Firmware and Configuration File Upload

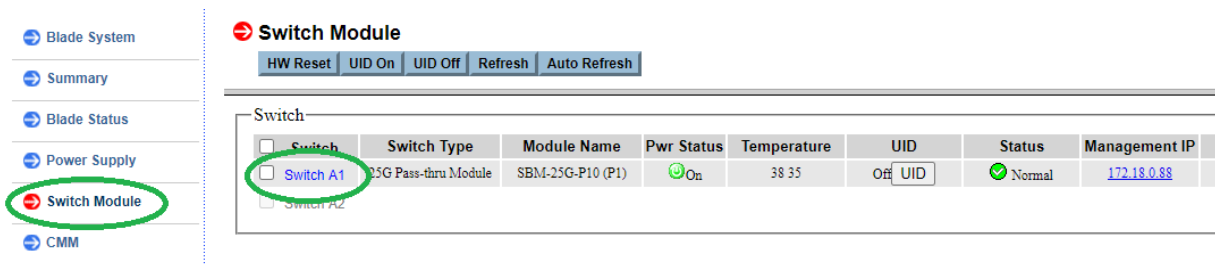
Depending on the vendor and model of the external Top of Rack switch, an appropriate configuration file must be uploaded to the module to enable the external QSFP28 uplinks. This can be done using the CMM Web interface (version 3.55 or later is required). The procedure below applies for both configuration file and firmware upgrade.

Note: Contact Supermicro Technical Support to get the appropriate configuration file or in case the external ports link does not come up.

Instructions to Upload Config File/Upgrade

1. Log in to the CMM web interface and, from the left pane, select **Switch Module** to view the switch summary page. Then click the pass-thru module for which you want to update the configuration file.

In this example we are using switch A1.

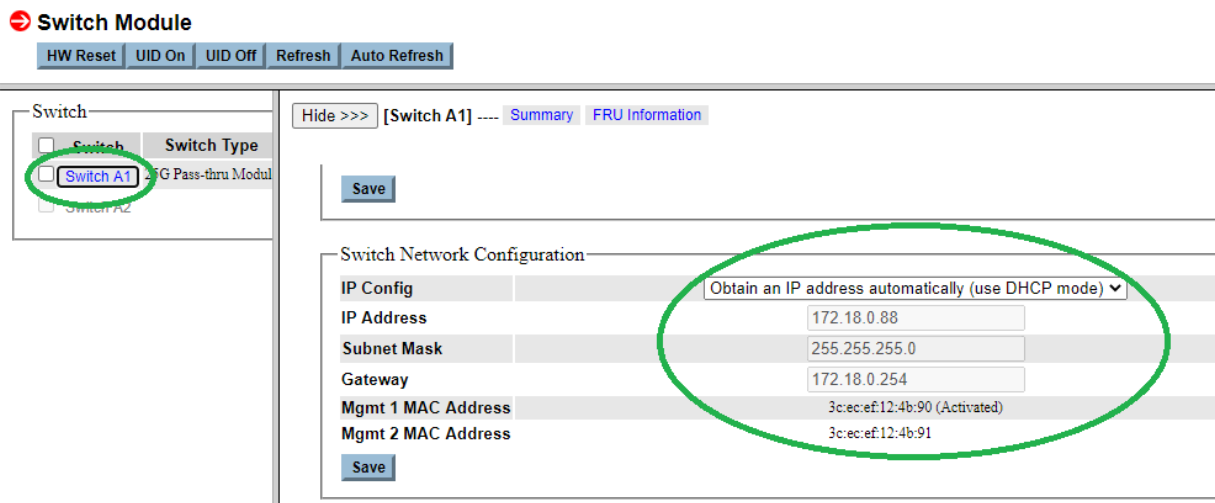


The screenshot shows the CMM web interface. On the left, a navigation menu has 'Switch Module' highlighted with a red circle. The main content area is titled 'Switch Module' and contains a table of switches. The table has columns for Switch, Switch Type, Module Name, Pwr Status, Temperature, UID, Status, and Management IP. The row for 'Switch A1' is selected, with a green circle around the checkbox and the text 'Switch A1'.

Switch	Switch Type	Module Name	Pwr Status	Temperature	UID	Status	Management IP
<input checked="" type="checkbox"/> Switch A1	25G Pass-thru Module	SBM-25G-P10 (P1)	On	38.35	Off	Normal	172.18.0.88
<input type="checkbox"/> Switch A2							

Figure 8. CMM Switch Module Page

2. Configure an IP address for the module. Scroll down to the **Switch Network Configuration** section to configure the IP address. The IP address can be static or DHCP. Click **Save**.



The screenshot shows the CMM web interface for the 'Switch Module' page. The 'Switch Network Configuration' section is visible, with a green circle around the IP address field. The IP address is set to 172.18.0.88. The dropdown menu for IP configuration is set to 'Obtain an IP address automatically (use DHCP mode)'. The 'Save' button is also visible.

Switch Network Configuration

IP Config: Obtain an IP address automatically (use DHCP mode) ▼

IP Address: 172.18.0.88

Subnet Mask: 255.255.255.0

Gateway: 172.18.0.254

Mgmt 1 MAC Address: 3c:ec:ef:12:4b:90 (Activated)

Mgmt 2 MAC Address: 3c:ec:ef:12:4b:91

Save

Figure 9. Get Module IP Address

3. Scroll further down to the **Pass-Thru Firmware/Configuration Upgrade** section in the Switch Summary page.

HW Reset UID On UID Off Refresh Auto Refresh

Switch

Hide >>> [Switch A1] ---- Summary FRU Information

Switch	Switch Type
<input type="checkbox"/> Switch A1	25G Pass-thru Modul
<input type="checkbox"/> Switch A2	

Gateway 172.18.0.254

Mgmt 1 MAC Address 3c:ec:ef:12:4b:90 (Activated)

Mgmt 2 MAC Address 3c:ec:ef:12:4b:91

Save

Pass-Thru Firmware/Configuration Upgrade

TFTP Server IP Address

File Name

Update File

Apply File

Reset to Factory Default

Figure 10. File Upgrade/Update Section

4. Fill in the file information.

TFTP server IP Address: The configuration file must be available in a TFTP server for download.

File Name: bmb25gp10_cfg.dat

Note: The configuration file name should be exactly the same as above, as it is applied to the pass-thru module.

Pass-Thru Firmware/Configuration Upgrade

TFTP Server IP Address 172.31.54.135

File Name bmb25gp10_cfg.dat

Update File

Apply File

Figure 11. File Upgrade/Update Information

5. Click **Update File** button to start updating the configuration file.
6. Click the **Apply File** button to apply the port settings accordingly. The button is disabled until the process is complete. The new settings will be retained upon reset of the device.

6 WEB User Interface

The pass-thru module has a WEBUI, which is served over HTTPS. By default the WEBUI is disabled.

Setting Password

Set the login password for ADMIN user to enable the pass-thru WEBUI, from the CMM as shown below.

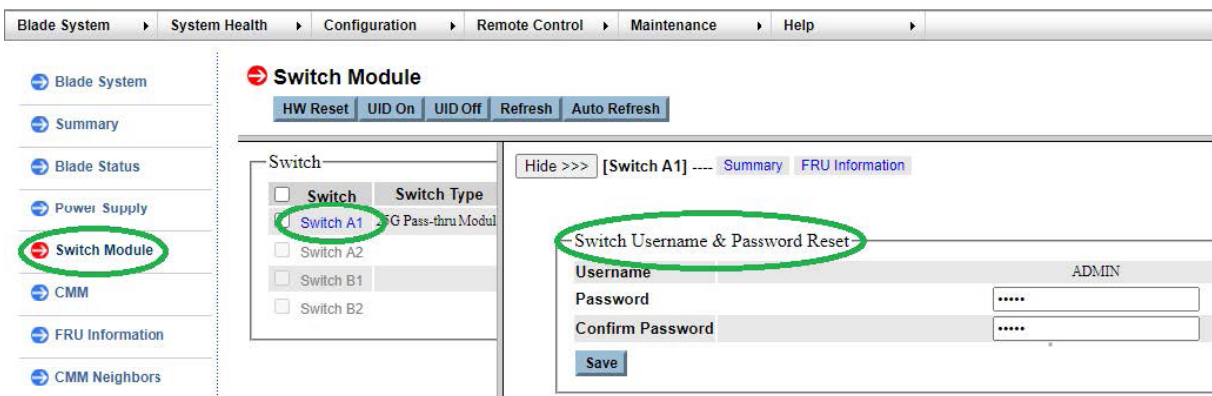


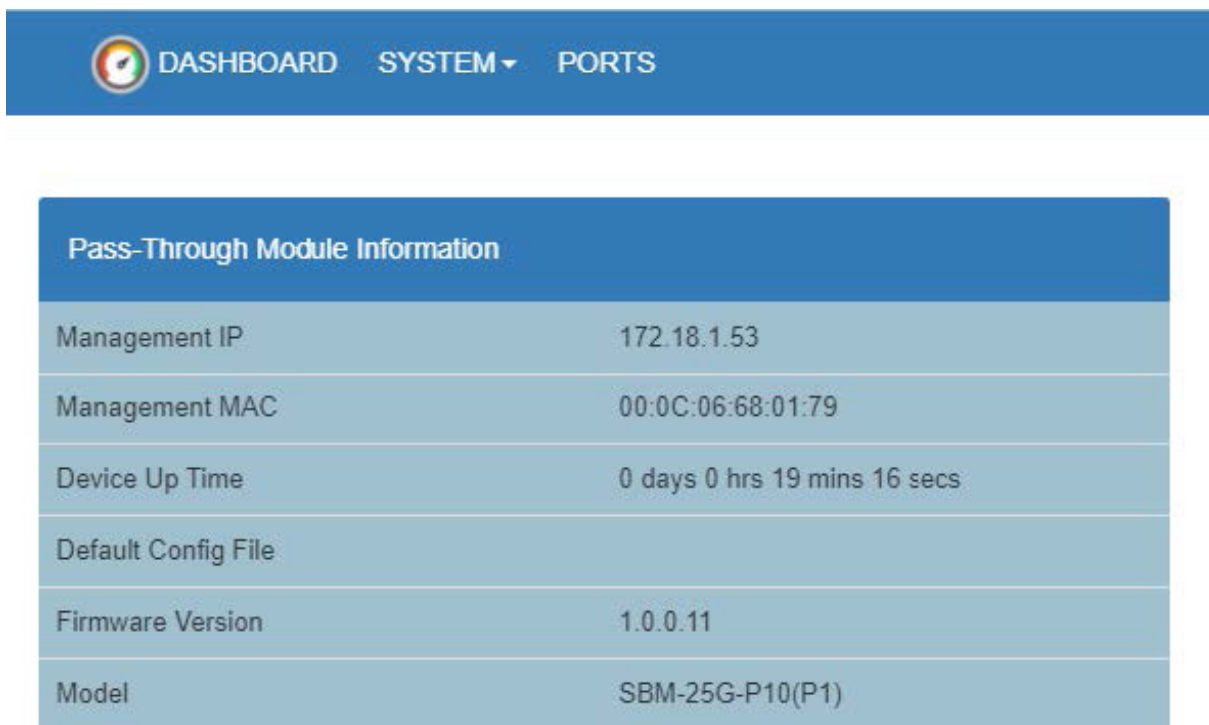
Figure 12. CMM, the WebUI Set Password Dialog

The pass-thru WEBUI can be accessed from a web browser over the link `https://<IP-address>`. From WEBUI the following tasks can be accomplished.

- View the Dashboard
- Configure management IP settings
- Upgrade the firmware
- Manage port configurations

Dashboard

The Dashboard page displays when the user logs in to the WEBUI. The Dashboard provides the management IP address, MAC address, device uptime, default configuration file, firmware version, and hardware model.



The screenshot shows the WebUI Dashboard with a navigation bar at the top containing a logo, 'DASHBOARD', 'SYSTEM' with a dropdown arrow, and 'PORTS'. Below the navigation bar is a table titled 'Pass-Through Module Information' with the following data:


Pass-Through Module Information	
Management IP	172.18.1.53
Management MAC	00:0C:06:68:01:79
Device Up Time	0 days 0 hrs 19 mins 16 secs
Default Config File	
Firmware Version	1.0.0.11
Model	SBM-25G-P10(P1)

Figure 13. WebUI, Dashboard

Management IP Settings

Management IP of the pass-thru module can be configured in one of the two modes – DHCP and static. By default the pass-thru module operates in DHCP mode.

To view or configure IP settings, in the Dashboard, click the **System** menu. Then select **Management IP**.



IP Address Mode	Dynamic ▾
IP Address	172.18.1.53
Subnet Mask	255.255.255.0
Default Gateway	172.18.1.254
Apply	

Figure 14. WebUI, Setting the IP Address

Firmware Upgrade

The firmware should be maintained at the latest version. Check with Supermicro Support for the latest firmware.

To upgrade the firmware, in the Dashboard, click the **System** menu. Then select **Firmware Upgrade**. Choose the correct firmware file, Then click the **Upload Firmware** button.

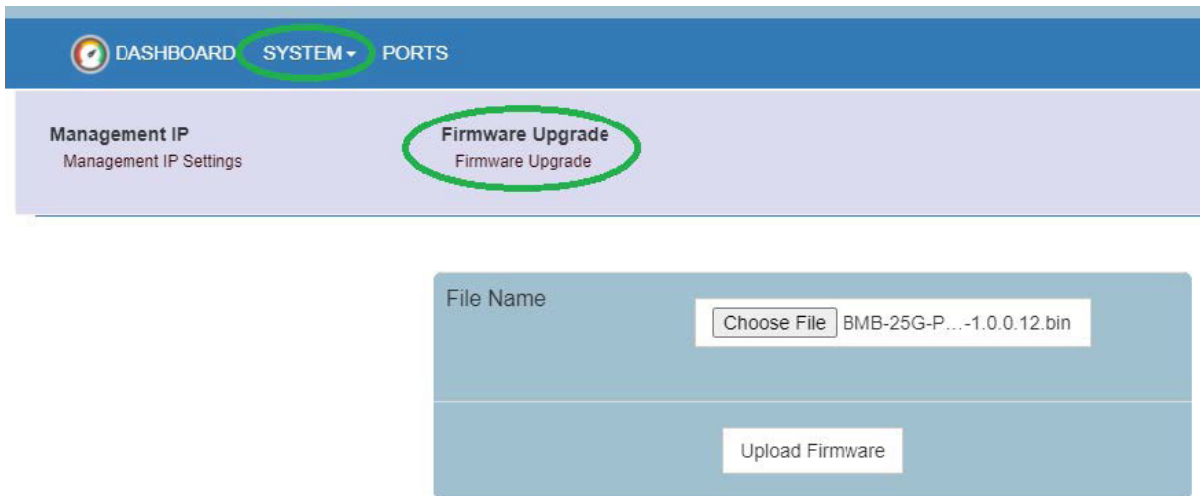


Figure 15. WebUI, Upgrading Firmware

It might take few minutes, so wait for the upload and upgrade to complete. When the upgrade is completed, a confirmation message is displayed.

Ports

The Ports page in the WEBUI allows the user to configure the port speed, negotiation and FEC settings. By default the ports will be configured based on the blade server model, which is obtained from CMM. If a third party peer switch is used and is not compatible with the default settings, then the ports can be manually configured using this page.

To manually configure the ports, in the Dashboard, click **Ports**.

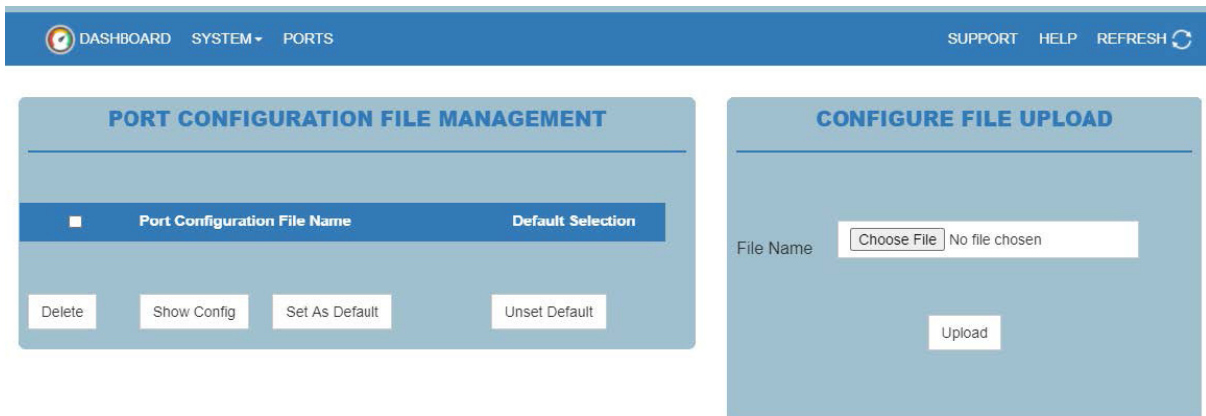


Figure 16. WebUI, Configuring Ports

To upload a configuration file, choose the correct configuration file and click **Upload**.

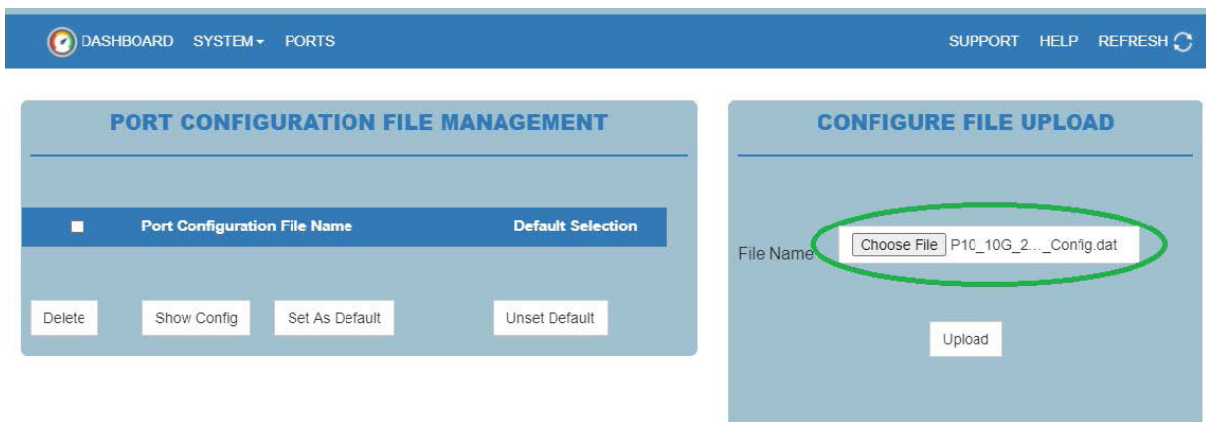


Figure 17. WebUI, Selecting a Port Configuration File

The uploaded configuration files will be displayed as shown below. If an invalid file is uploaded, then the file will be deleted and will not be displayed in the list.

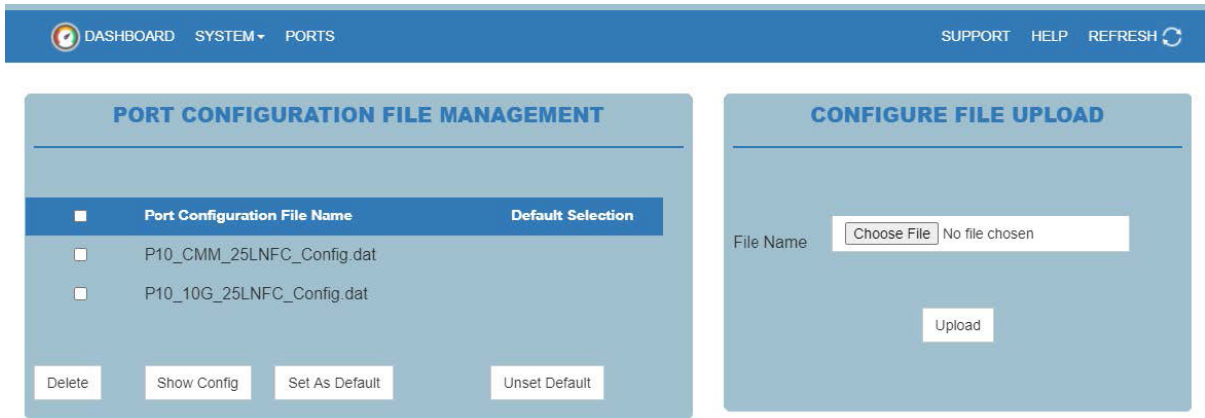


Figure 18. WebUI, Configuring Ports, File List

To check the detailed settings of any configuration file, select that configuration file and click on the **Show Config** button.

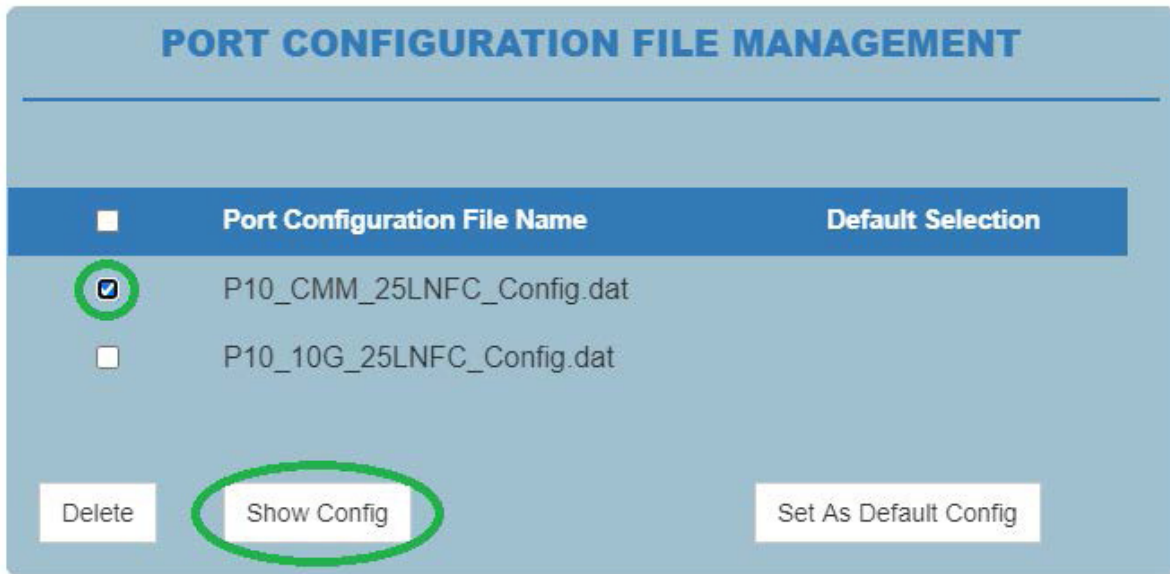


Figure 19. WebUI, Configuring Ports, Show Configuration

Sample configuration is shown below. These settings vary based on the peer device, cable, etc., so the user must have some level of expertise in networking to edit this settings.

PORT CONFIGURATION

File: P10_CMM_25LNFC_Config.dat

Port	10G Host	10G Line	25G Host	25G Line	Speed	Description
0	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
1	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
2	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
3	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
4	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
5	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
6	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	

Figure 20. WebUI, Example Port Configuration Files

After changing the settings, click the **Apply** button to test the configuration. If the links works well, then click on the **Save** button to save the configuration. If the configuration is not saved, it is effective only until the pass-thru module is rebooted.

PORT CONFIGURATION

File: P10_CMM_25LNFC_Config.dat

Port	10G Host	10G Line	25G Host	25G Line	Speed	Description
0	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
1	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
2	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
3	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
4	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
5	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	
6	ANON_NOFEC ▾	ANOFF_NOFEC ▾	ANON_RSFECD ▾	ANOFF_FCFCFC ▾	CMM ▾	

Figure 21. WebUI, Applying a Port Configuration File

To apply the configuration across the reboots, make the configuration file as default as shown below. Select the configuration file and click the **Set As Default Config** button.

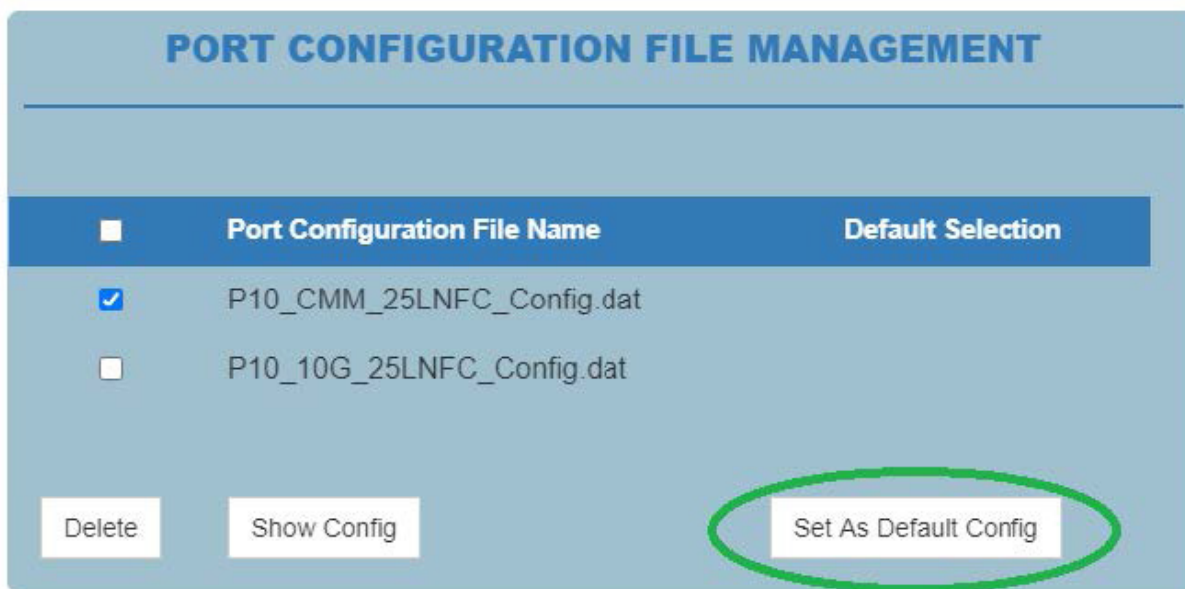


Figure 22. WebUI, Setting a Default Port Configuration File

Only one file can be the default configuration file. It is marked under the **Default Selection** column.

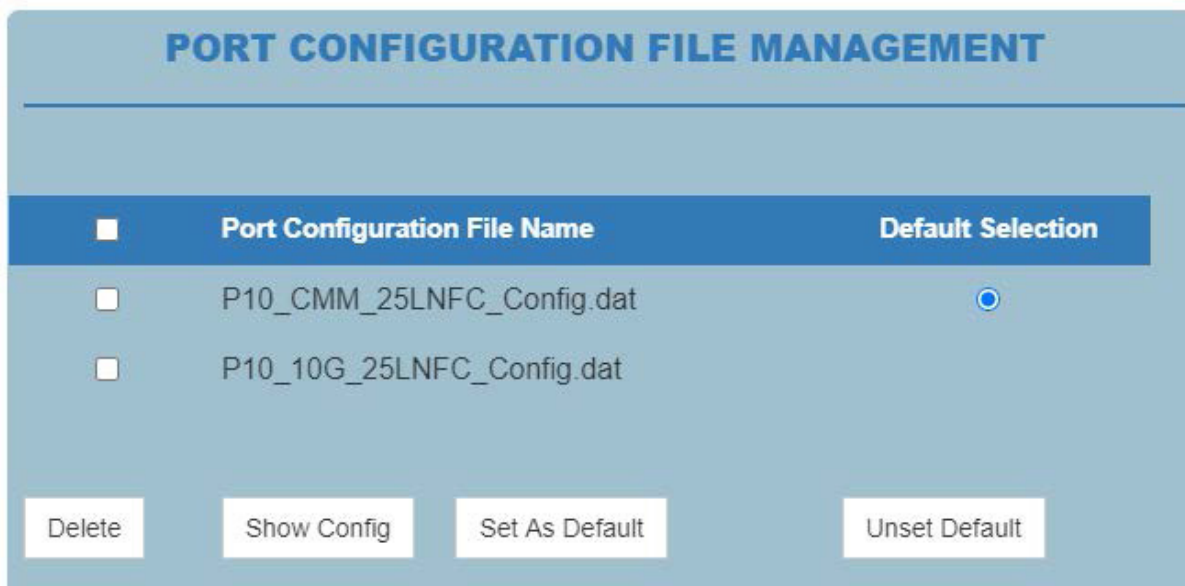


Figure 23. WebUI, Configuring Ports

Unwanted configuration files can be deleted permanently. To delete a configuration file, select the file and click the **Delete** button. A warning message will ask for confirmation. Click OK. The deleted files are not recoverable.

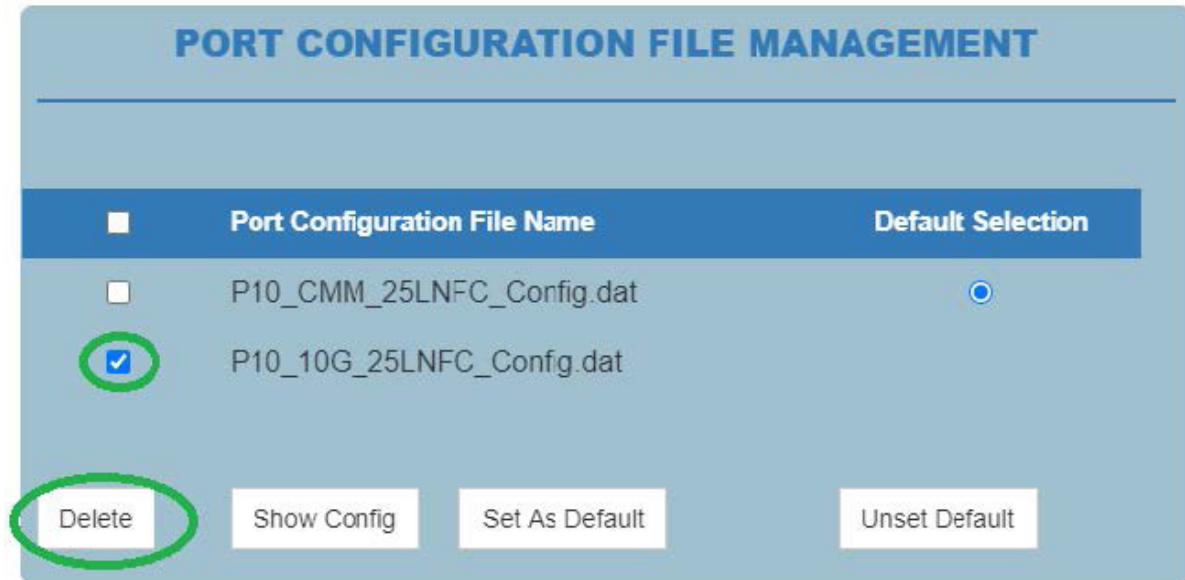


Figure 24. WebUI, Deleting a Port Configuration File

To remove the file from default configuration, select the file and click the **Unset Default** button. If no file is set as default configuration file, then after every boot the pass-thru module will follow the speed setting from CMM.

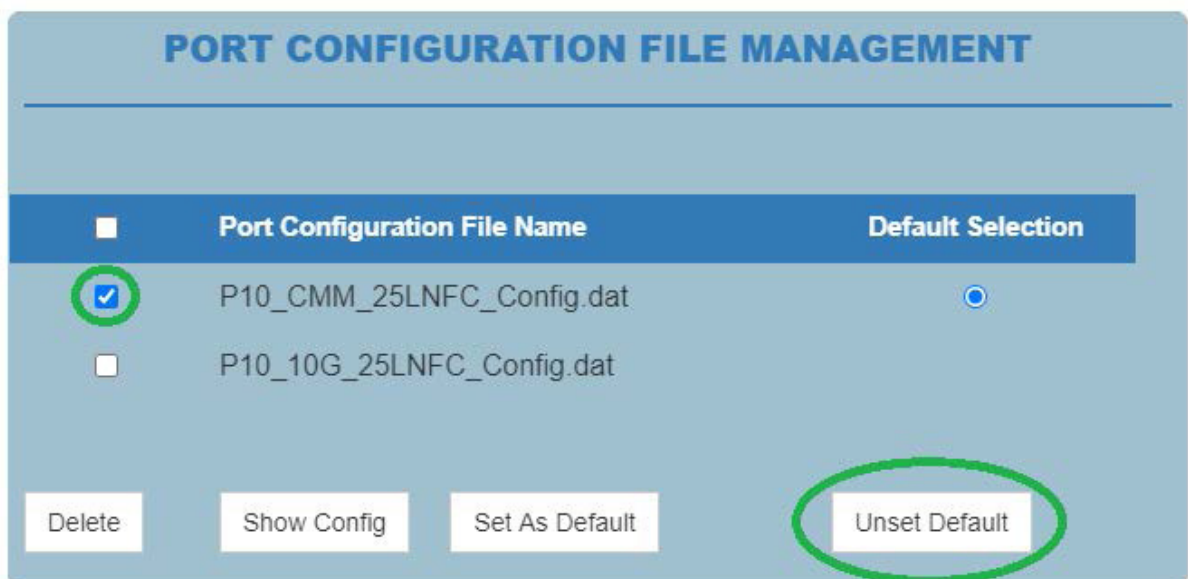


Figure 25. WebUI, Changing the Default Status

7 Specifications

Module Hardware Specifications

Maximum Internal ports: Twenty 10G/25G Internal Ports

External Ports: Five QSFP28/100G ports that can split into four 25G/SFP28 or four 10G/SFP+ using Fan-out cables

Console Port: One (RJ45 based)

Physical and Environmental Specifications

Weight: 1.99lbs (0.902Kg)

Dimensions: 6 1/2" x 10 9/16" x 1 1/2"

Temperature: Operating 0°C to 45°C (32°F to 113°F)

Humidity: Operating 5% to 95% (non-condensing)

Power Specifications

Hot-Pluggable: Yes

Power consumption: 74 Watts

Enclosure Compatibility

SBE-820J: Up to four pass-thru modules

SBE-610J: Up to four pass-thru modules

SBE-414E: Up to two pass-thru modules