



Core/Edge Router

Hardware Installation Guide







R1.0



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1 Overview

The UfiSpace S9710-76D is a high-performance, versatile, open disaggregated core and edge router. It provides 400GE high speed Ethernet ports and supports IEEE 1588v2 and SyncE timing synchronization features. The S9710-76D can connect to the UfiSpace S9705-48D fabric to provide a distributed disaggregated chassis architecture to fulfill the high traffic loading in 5G application scenarios. In the past, monolithic chassis was the only solution for carrier aggregation and core networks. Now, the S9710-76D can form pay-as-you-grow clusters, which provides a more flexible solution for network operators.

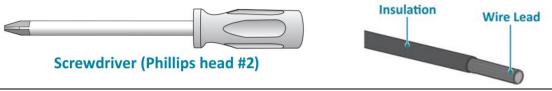
The S9710-76D supports Primary Reference Time Clock (PRTC), distributing phase and time accuracy via PTP (ITU-T G.8275.1), making it suitable for 5G application scenarios.

With redundant power supplies and fans together with a high port density design, our S9710-76D delivers high system reliability, Ethernet switching performance and intelligence to the network and helps reduce infrastructure and administrative costs.

This document describes the technical specifications designed for S9710-76D.

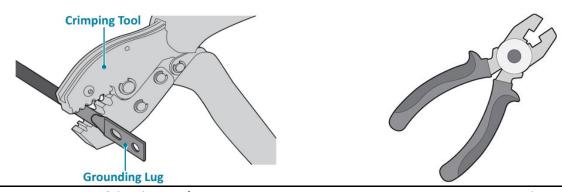


Installation Tools 2.1



Phillips #2 Screw Driver

4-AWG wire for grounding



Crimping tool

Wire stripping tool



All illustrations within this document are for reference purposes only. Actual objects may differ.

- PC with terminal emulation software. Refer to the "Initial System Setup" section for details.
 - Baud rate: 115200 bps
 - Data bits: 8 · Parity: None • Stop bits: 1
 - Flow control: None

2.2 **Installation Environment Requirements**

- Power Reserve: The S9710-76D power supply is available with:
 - 1. DC Version: 1+1 Redundant and hot swappable -48V voltage DC power supply field replaceable unit or;
 - 2. AC Version: 1+1 Redundant and hot swappable 220V AC power supply field replaceable unit.

To ensure the redundant feed power design functions properly, a field with dual power circuit is recommended with a reserve of at least 3000 watts on each power circuit.

Space Clearance: The S9710-76D width is 17.16 inches (43.6cm) and shipped with a rack mount rails suitable for 19 inch (48.3cm) wide racks. The depth of the S9710-76D chassis is 30 inches (76.2cm) without the field replaceable units (FRUs) and comes with adjustable check mounting rails suitable for rack depths of 22 inches (55.9cm) to 33 inches (83.8cm). The handle for the fan units will extend outwards by 1 inch (2.5cm) and the handle for the power supplies will extend outwards by 1.5 inches (3.8cm). Therefore, to accommodate the fan, power supply handles and cabling, a minimum space clearance of 6 inches (15.2cm) is needed at front and back of the S9710-76D. A total minimum reserve depth of 42 inches (106.6cm) is required.

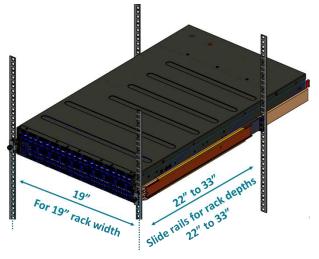


Figure 1.

• Cooling: The S9710-76D airflow direction is front-to-back. Make sure the equipment on the same rack have the same airflow direction.



Figure 2.

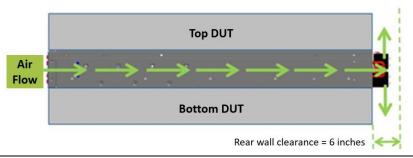


Figure 3.

2.3 **Preparation Check List**

Task	Check	Date
Power voltage and electric current requirement		
DC version: -40 to -72V DC or;		
AC version: 200-240VAC		
Installation spacing requirement		
S9710-76D is 2RU (3.45"/8.8cm) in height, 17.16" (43.6cm) in		
width, and minimum reserve depth of 36 inches (94.4cm)		
Thermal requirement		
S9710-76D working temperature is 0 to 45°C (32°F to 113°F), airflow		
direction is front-to-back		
Installation tools required		
#2 Philips Screwdriver, 4-AWG wire stripper, and crimping tool		
Accessories required		
PC with USB ports and terminal emulation software		



3 Package Contents

3.1 Accessory List

Item	Description	Spec. & Dimensions	Qty.	Weight
1	AC Grounding Lug	1.65" x 1.45" x 0.55" (#4-AWG)	1 pcs	0.04lbs (17.5g)/1 pcs
2	DC Input Lug	2.4" x 0.6" x 0.42" (#4-AWG)	4 pcs	0.06lbs (28.35g)/1 pcs
3	Screw Kit (for Grounding Lug)	2 x Screw M4*L8.0mm 2 x M4 Lock Washers	2 sets	0.01lbs (2.6g)/1 set
4	Micro USB Cable	3.28' (1m)	1 pcs	0.05lbs (24.4g)/1 pcs
5	RJ45 to B9F Cable	8' (2.4m)	1 pcs	0.27lbs (123.9g)/1 pcs
6	Adjustable Mounting Rail (for 4 post)	30.4" x 1.7" x 0.9" (771 x 44 x 22mm) (22"~33" rack depth)	2 pcs	7.01lbs (3.2kg)/2 pcs 3.5lbs (1.6kg)/1 pcs
7	Screw Kit (for Rack Mount Rail)	2 x Screw M4.0*L5.5mm	2 sets	0.004lbs (1.9g)/1 set
8	USB 3.0 Cable	7.8" (20cm)	1 pcs	0.03lbs(16g)/pcs

3.2 **Component Physical Information**

Specification	Item	Description
	Total package contents	76.83lbs (33.49kg)
	Chassis without FRU	58.14lbs (26.37kg)
	Dawar Cupply Hoit (DCH)	DC PSU: 4.16 lbs (1.9kg)
	Power Supply Unit (PSU)	AC PSU: 4.6lbs (2.08kg)
VA Color	Fan module	1.6lbs (741g)
Weight	Ground lug	0.146lbs (66.2g)
	Adjustable mounting rail	7lbs (3.2kg)
	Micro USB cable	0.05lbs (24.4g)
	RJ45 to B9F cable	0.27lbs (123.9g)
	AC power cord (AC version only)	0.7lbs (318g)
	S9710-76D (W x D x H)	17.16" x 30" x 3.45" (436 x 762 x 87.7mm)
Dimension	PSU (W x D x H)	2.68 x 16.93" x 1.57" (68 x 430 x 40mm)
	Fan (W x D x H)	3.15" x 6.45" x 3.15" (80 x 163.8 x 80mm) w/o handle



4 Identifying Your System

4.1 S9710-76D Overview

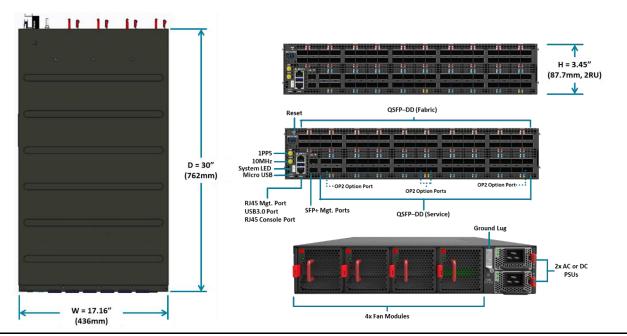


Figure 4.

4.2 **PSU Overview**

Power supply unit (PSU) with 1+1 Redundancy. Hot swappable, field replaceable unit (FRU).

AC Version:

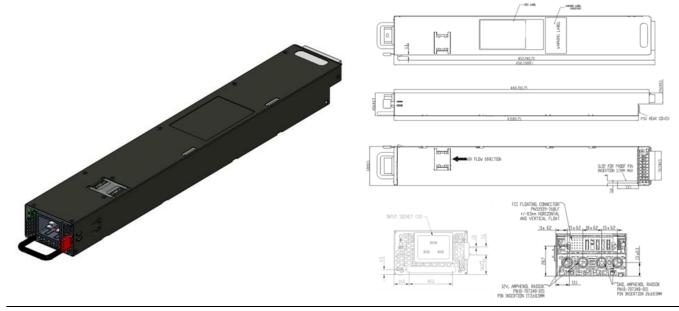


Figure 5.

DC Version:

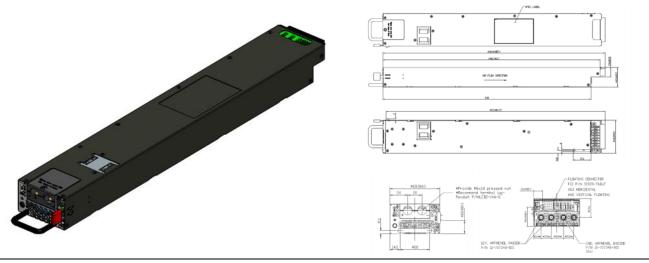


Figure 6.

4.3 **Fan Overview**

3+1 Redundant, hot swappable, field replaceable unit (FRU).



Figure 7.

Port Overview 4.4

Port ID	Form Factor	Maximum Support Distance	Support Speed
00 ~ 39	QSFP-DD	Up to 328.1ft link length(100m)	400GE
00 ~ 35	QSFP-DD	Up to 6.2mi link length(10km)	400GE/100GE

Service ports (labelled in blue in figure below) on the front panel will all function normally when OP2 is not enabled. Once OP2 is enabled, the service ports 01, 17, 19 and 35

(highlighted in yellow in figure below) will be reserved for OP2 functionality. Therefore, when OP2 is enabled, there will only be 32 service ports available.



Figure 8.



5 Rack Mounting



It is recommended that installation be done by at least two trained professionals. One individual should hold the router in position, while the other secures it in place onto the rail slides.

- 1. Separate the adjustable mounting rail slides.
 - 1.1 Pull apart the inner and outer rails until it is locked in place. An audible click can be heard when the rails are locked in place.
 - 1.2 Pull the white tab forward to unlock the rails in order to completely separate the inner rail from the outer rail. The white tab is located on the inner rail.
 - 1.3 Once the inner rail is separated, push the tab located on the outer rail to unlock and slide the middle rail back.

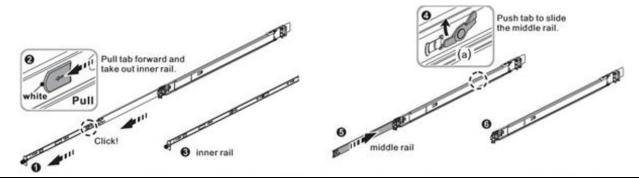


Figure 9.

- 2 Install the inner rails onto the chassis.
 - 2.1 The inner rail has key-shaped holes where attachment pins on the chassis can be aligned. The chassis has 5 attachment pins on each side, for a total of 10 pins. Fit the key-shaped holes with the attachment pins and pull back to hold the inner rack in place.



Make sure the locking screw of the inner rail is positioned at the front of the chassis.

2.2 After the attachment pins are secured to the inner rail, lock the inner rail to the chassis using two M4 screws (one on each chassis side).

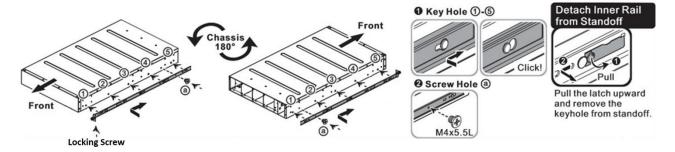


Figure 10.

- 3 Fix the outer rails onto the rack.
 - 3.1 The outer rails have two brackets on the front and rear. Pull back the clip of the rear bracket to attach it onto the rack. An audible click can be hear when the bracket is secured onto the rack.
 - 3.2 Once the rear bracket is secured, pull back the clip of the front bracket attach it to the rack. An audible click can be heard when the bracket is secured onto the rack.

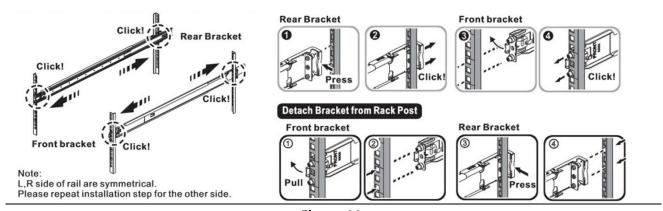


Figure 11.

- Insert the Chassis to complete the installation.
 - 4.1 Pull the middle rail fully extended into lock position, an audible click can be heard when the middle rail is fully extended and locked into position.
 - 4.2 Insert the chassis by lining up the inner rails into the slot of the middle rail.
 - 4.3 Slide the chassis into the middle rail until it hits a stop.
 - 4.4 Push the blue release tab on each rail to unlock the rails and slide the chassis all the way into the rack.
 - 4.5 Lock the chassis into place by using the screw on the front of the inner rail.

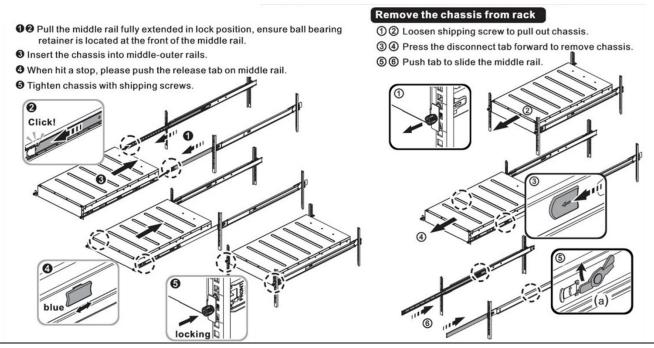


Figure 12.



6 Installing Fan Modules

The fan modules are hot swappable field replaceable units (FRUs), which can be replaced while the router is operating as long as all the remaining modules are installed and in operation. The fans come pre-installed and the following steps are instructions on how to install a new fan module.

1. Locate the release tab on the fan module. Then press and hold the release tab to unlock the fan module.



Figure 13.

2. While holding down the release tab, grip the fan handle and gently pull the fan module out of the fan bay.

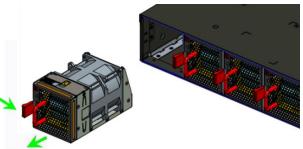


Figure 14.

- 3. Align the new fan module with the fan bay, ensuring that the fan module's power connector is in the correct position.
- 4. Carefully slide the new fan module into the fan bay and gently push until it is flush with the case.
- 5. An audible click will be heard when the fan module is installed correctly. The fan module will not go in all the way if it is installed in the wrong direction.

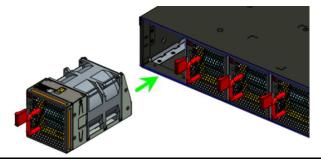


Figure 15.



7 Installing Power Supply Units

Safety Notices

Caution! Shock hazard!

The power supply unit (PSU) is a hot swappable field replaceable unit (FRU) and can be replaced while the router is operating as long as the remaining (second) PSU is installed and in operation (with 110V Low Line/220V High Line power input). The AC and DC PSU follow the same steps for installation. The PSUs comes pre-installed and the following are instructions on how to install a new PSU.

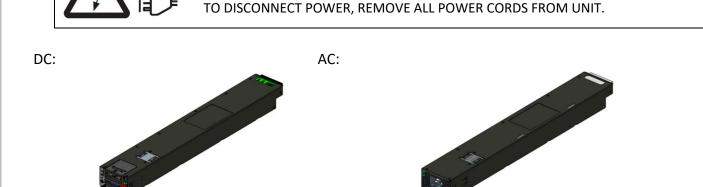


Figure 16.

- 1. Locate the release tab on the PSU. Then press and hold down the release tab to unlock the
- 2. While holding down the release tab, grip the PSU's handle and firmly pull it out of the power bay.

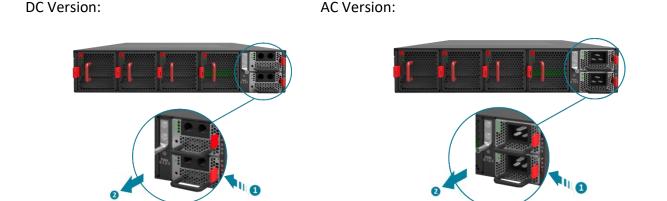


Figure 17.

- 3. Align the new PSU with the power bay, ensuring the PSU's power connector is in the correct position.
- 4. Carefully slide the new PSU into the power bay and gently push until it is flush with the case.

5. An audible click will be heard when the PSU is installed correctly. The PSU will not go in all the way if it is in the wrong direction.

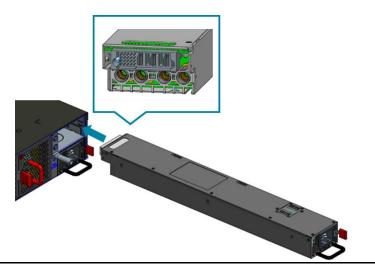


Figure 18.



8 Grounding the Router

It is recommended that equipment changes be done on a grounded rack system. This will reduce or prevent the risk of shock hazards, equipment damage, and potential of data corruption.

The router can be grounded from the router's case and/or the power supply units (PSUs). When grounding the PSUs, ensure that both PSUs are grounded at the same time in case one of them is removed. A grounding lug and M4 screws and washers are provided with the package contents, however, the grounding wire is not included. The location for securing the grounding lug is at the rear of the case and is covered with a protective label.

The following instructions are for installing the grounding lug onto the case.



This equipment must be grounded. Do not defeat the ground conductor or operate the equipment without correctly grounding the equipment. If there is any uncertainty about the integrity of the equipment's grounding, please contact the electrical inspection authority or a certified electrician.

- 1. Before grounding the router, ensure that the rack is properly grounded and in compliance with local regulatory guidelines. Ensure that there is nothing that can obstruct the connection for grounding and remove any paint or materials that may prevent good grounding contact.
- 2. Strip the insulation from a size #4 AWG grounding wire (not provided within the package contents), leaving 1.125"+/-0.02" (28.6+/-0.5mm) of exposed grounding wire.
- 3. Insert the exposed grounding wire all the way into the hole of the grounding lug (provided with package contents).
- 4. Using a crimping tool, firmly secure the grounding wire to the grounding lug.

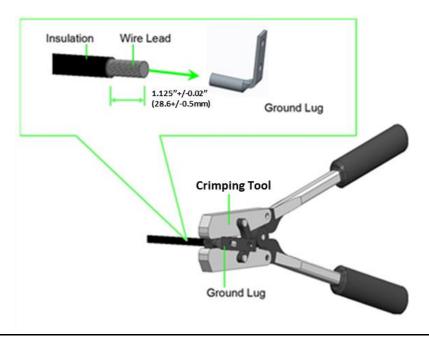


Figure 19.

5. Locate the designated location for securing the grounding lug, which is located on the rear of the router and remove the protective label.

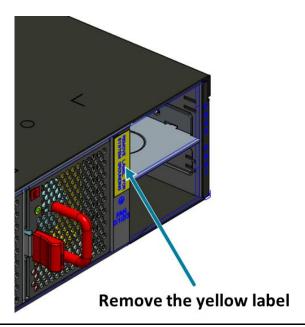


Figure 20.

6. Using 2 M4 screws and 4 washers (provided with the package contents), firmly lock the grounding lug to the designated grounding location on the router.

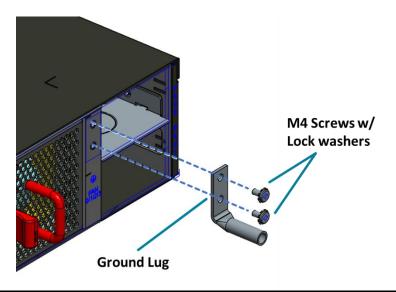


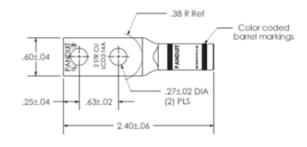
Figure 21.



9 Connecting Power

9.1 **DC Version**

- 1. Ensure there is enough power to supply the system.
 - The maximum system power consumption is 2719.27watts. It is recommended to ensure that enough power is reserved from the power distribution system before installation. Also, please ensure that both PSUs have been properly installed before powering up the equipment, as the S9710-76D is designed to support 1 + 1 power redundancy.
- 2. Attach the DC power cables to the lugs.
 - The UL 1015, 4 AWG DC power cable (not provided) must be attached to a two-hole lug before connecting to the PSU. The following instructions are for connecting the DC Power Cable to the lug:
 - 2.1 Strip the insulation from a DC Power Cable, leaving 0.94"+/-0.02"(23.9+/-0.5mm) of exposed cable
 - 2.2 Insert the exposed DC power cable into the heat shrink tubing, the length of heat shrink tubing should not less than 38.5mm.
 - 2.3 Insert the exposed DC power cable all the way into the hollow tube of the lug (provided with switch package contents).
 - 2.4 Using a crimping tool, firmly secure the DC power cable to the lug. It is recommended to not crimp exceeding the lines indicated on the lug, which is also depicted as the cross-section area in the picture on the below.



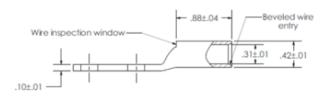


Figure 22.

2.5 Move the heat shrink tubing to cover any exposed metal on the DC power cable and lug.

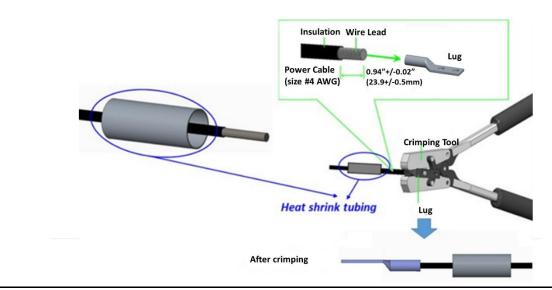


Figure 23.

2.6 Use a heat source to secure the heat shrink tubing in place. Allow the heat shrink tubing to cool before attaching the DC power cable. An example of the installed DC version with insulation material as below.

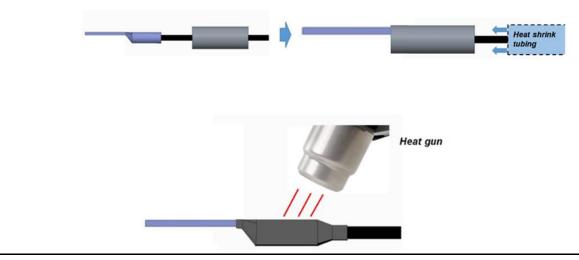


Figure 24.

3. Attach the power cable.

Locate the DC power screw-type terminal block located on the PSU. Remove the plastic cover that is protecting the terminal block by removing the single screw locking it in place. Secure the two-hole lugs (with the DC power cable attached) to the terminal block.

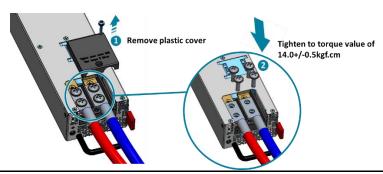


Figure 25.

4. Tighten the screws to the specified torque.

Tighten the screws to a torque value of 14.0+/-0.5kgf.cm. If the torque is not enough, the lug will not be secure and may cause malfunctions. If the torque is too much, the terminal block or lug may be damaged. Secure the plastic cover back onto the terminal block with the single screw provided. The figure below depicts how it should look once the lug is attached and the protective plastic cover reinstalled.



Figure 26.

5. Feed DC power into the system.

The PSU will immediately output 12V and 12VSB to the system with a -48V DC power source. The PSU has a built in 5*30 amperes fuse parallel based on the PSU maximum capacity, which will act as a second tier system protection in case the power distribution unit's fuse is not functioning.

Verify that the power supply is operating.
 If connected correctly, when turned on, the LED on the PSU will light up with a Green color designating normal operation.

9.2 AC Version

1. Ensure there is enough power to supply the system.

The maximum system power consumption is 2719.27 watts. It is recommended to ensure that enough power is reserved from the power distribution system before installation. Also, please ensure that both PSUs have been properly installed before powering up the equipment, as the 59710-76D is designed to support 1 + 1 power redundancy.

2. Attach the power cable.

Locate the AC inlet connector on the PSU and plug the AC power cable (250VAC 15A, IEC60320 C19) into the AC inlet connector.

- 3. Feed AC power into the system.
 - The PSU will immediately output 12V & 12VSB to the system with a 220V, AC power source. The PSU has a built-in 25 amperes, fast acting fuse based on the PSU maximum capacity, which will act as a second tier system protection in case the power distribution unit's fuse is not functioning.
- 4. Verify that the power supply is operating. If connected correctly, when turned on, the LED on the PSU will light up with a solid Green color designating normal operation.



Verifying System Operation

10.1 Front Panel LED

Verify basic operations by checking the system LEDs located on the front panel. When operating normally, the SYS, FAN, PSO and PS1 LEDs should all display green.



Figure 27.

LED Condition	Equipment Status
SYNC	Note: SYNC LED needs NOS to integrate features below
Off System timing/clock synchronization is disabled. (Not synchronized external reference clock).	
Solid Green	System timing/clock synchronization to external reference. (GNSS, 1PPS, PTP, etc.)
Solid Amber	System timing/clock synchronization is in free-run or holdover mode.
SYS	
OFF	No power
Solid Green	Host CPU/BMC is up
Solid Amber	Power is up but Host CPU/BMC is not up
FAN	
OFF	Fans are not initialized
Solid Green	All Fans are work normal
Blinking Amber	Fan fail: one or more Fans need service
PS0	
OFF	No Power
Solid Green	PSU 0 is working well
Blinking Amber	PSU1 fail (PSU1 need service)
PS1	
OFF	No Power
Solid Green	PSU 1 is working well
Blinking Amber	PSU2 fail (PSU2 need service)

10.2 PSU FRU LED

Additional information about PSU status can be obtained by the LEDs located on the PSU itself.

LED Condition	Equipment Status	
Input LED		
Green	Input within range	
Off	Input out of range	
UII	FW upgrading	
	Output LED	
Solid green	12.3V Main output OK	
Blinking green(1Hz)	12.3 Main output in standby mode.	
Off	12.3V main output off due to input out of range	
Blinking yellow(1Hz)	Over temp warning	
	Fan error	
Solid yellow	12.3V main output or 12VSB out or range	
	OTP, OVP, UVP, OCP	

OTP: Over Temperature Protection, OVP: Over Voltage Protection, UVP: Under Voltage Protection,

OCP: Over Current Protection

10.3 Fan FRU LED

Additional information about fan status can be obtained by the LEDs located on the fan itself.

LED Condition	Equipment Status
Off	No input power
Green	Fan FRU function normal
Amber	Fan FRU abnormal, service is required



Initial System Setup

Establishing a first-time serial connection.

To assign an IP address, you must have access to the command line interface (CLI). The CLI is a textbased interface that can be accessed through a direct serial connection to the router.

Access the CLI by connecting to the console port. After you assign an IP address, you can access the system through Telnet or SSH by Putty, TeraTerm or HyperTerminal.

Perform the following steps to access the router through a serial connection:

- 1. Connect the console cable.
 - The console can be connected either with the IOIO port or the micro USB port. If connecting with USB, drivers will need to be installed.
 - To connect the console using the IOIO port, locate the port labelled "IOIO", then plug a serial cable into the console port and connect the other end to the PC or laptop. Cable types may vary depending on the router model.

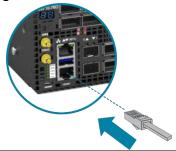


Figure 28.

- To connect the console using the micro USB port, locate the port on the front panel of the router, then connect your computer using the micro USB cable provided in the packaging contents. Download the suitable driver for your operating system (OS) using the URL below:
 - https://www.silabs.com/products/development-tools/software/usb-to-uart-bridgevcp-drivers
 - https://www.silabs.com/ and search for CP210X



Figure 29.

2. Check for serial control availability. Disable any serial communication programs running on the computer such as synchronization programs to prevent interference.



3. Launch a terminal emulator.

Open a terminal emulator application such as HyperTerminal (Windows PC), Putty or TeraTerm and configure the application. The following settings are for a Windows environment (other operating systems may vary):

Baud rate: 115200 bps

Data bits: 8 Parity: None Stop bits: 1

• Flow control: None

4. Login to the device.

After the connection is established, a prompt for the username and password displays. Enter the username and password to access the CLI. The username and password should be provided by the Network Operating System (NOS) vendor.

Cable Connections 12

12.1 Connecting the USB Extender Cable

Connect the USB 3.0 A Type plug (male connector) into the USB port (female connector) located on the front panel of the router. The USB port is a maintenance port.

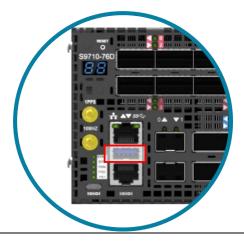


Figure 30.

12.2 Connecting the 1PPS Interface

Connect an external 1PPS cable with an impedance of 50 ohms to the port labelled "1PPS".

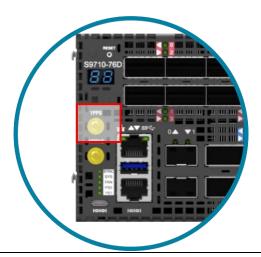


Figure 31.

12.3 Connecting the 10MHz Interface

Connect an external 10MHz cable with an impedance of 50 ohms to the port labelled "10MHz".

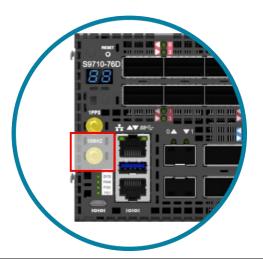


Figure 32.

12.4 Connecting the Transceiver



To prevent over tightening and damaging the optic fibers, it is not recommended to use tie wraps with optical cables.

Read the following guidelines before connecting the transceiver:

- Before installing the router, take into consideration rack space requirements for cable management and plan accordingly.
- It is recommended to use hook-and-loop style straps to secure and organize the cables.
- For easier management, label each fiber-optic cable and record its respective connection.

Maintain a clear line of sight to the port LEDs by routing the cables away from the LEDs.



Before connecting anything (cables, transceivers, etc.) to the router, please ensure to discharge any static electricity that may have built up during handling. It is also recommended the cabling be done by a professional who is grounded, such as by wearing an ESD wrist strap.

The following the steps below for connecting a transceiver.

- 1. Remove the new transceiver from its protective packaging.
- 2. Remove the protective plug from the transceiver itself.
- 3. Place the bail (wire handle) in the unlocked position and align the transceiver with the port.
- 4. Slide the transceiver into the port and gently push until it is secured in place. An audible click can be heard when the transceiver is secured in the port.



Cautions and Regulatory Compliance Statements

13.1 Cautions and Regulatory Compliances





Safety Notices Caution! Shock hazard!

TO DISCONNECT POWER, REMOVE ALL POWER CORDS FROM UNIT.



Electrical Hazard: Only qualified personnel should perform installation procedures. Risques d'électrocution: Seul un personnel qualifié doit effectuer les procedures d'installation.

Warning: Network Switch power supplies do not have switches for turning the unit on and off. Before servicing, disconnect all power cords to remove power from the device. Make sure that these connections are easily accessible.



Avertissement: Network Switch alimentations ne sont pas des interrupteurs pour allumer l'appareil et en dehors. Avant l'entretien, débranchez tous les cordons d'alimentation pour couper l'alimentation de l'appareil. Assurez-vous que ces connexions sont facilement accessibles.



Caution: Before mounting the device, ensure that the rack can support it without compromising stability. Otherwise, personal injury and/or equipment damage may result.



Caution: This unit must be installed indoors. The unit, AC power supplies, DC power supplies, and its cables are not designed for outdoor use.



Caution: Follow appropriate ESD procedures when unpacking and handling the switch. These include unpacking the switch in an ESD-safe environment and wearing appropriate ESD protective gear, such as ESD-safe footwear and ESD wrist straps where appropriate.



Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



Warning: Do not use optical instruments to view the laser output. The use of optical instruments to view laser output increases eye hazard. Use only UL/CSA, IEC/EN60825-1/-2 recognized pluggable modules.

Avertissement: Ne pas utiliser d'instruments optiques pour voir la sortie du laser. L'utilisation de instruments optiques pour afficher la sortie laser augmente les risques oculaires. Utilisez uniquement UL/CSA, IEC/EN60825-1 /-2 reconnu modules enfichables.

Federal Communications Commission (FCC) Notice

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment uses, generates, and can radiate radio frequency energy and if not installed in accordance with the operator's manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference in which case the user will be required to correct the interference at his own expense.



Changes or modifications made to this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Notice

CAN ICES-003 (A)/NMB-003(A)

This digital apparatus does not exceed the class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada

Class A ITE Notice



This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

VCCI Notice

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

警告使用者:

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害 を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう 要求されることがあります。 VCCI - A

此為甲類資訊技術設備,於居住環境中使用時,可能會造成射頻擾動, 在此種情況下,使用者會被要求採取某些適當的對策。

此为A级产品,在生活环境中,该产品可能会造成无线电干扰。

在这种情况下,可能需要用户对干扰采取切实可行的措施。

Installation Location Statement

It is recommended that the device be installed only in a server room or computer room where access is:



- Restricted to qualified service personnel or users familiar with restrictions applied to the location, reasons therefore, and any precautions required.
- Only afforded by the use of a tool or lock and key, or other means of security, and controlled by the authority responsible for the location.

Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.

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