

Quick Start Guide

Ethernet Switch

AS7927-50X

Accton

www.accton.com

Package Contents



1



2



3



4



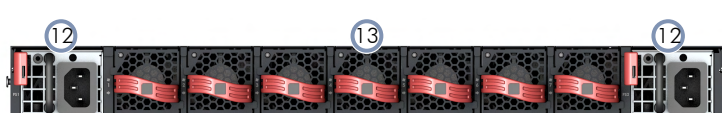
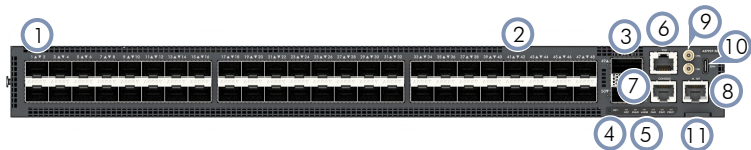
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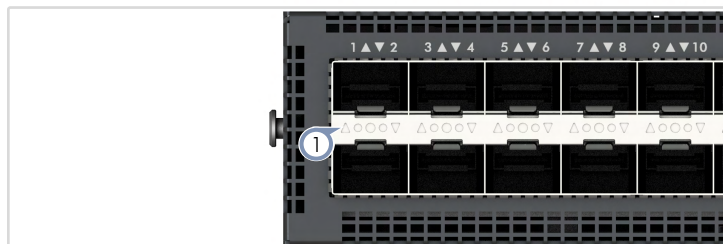
1. AS7927-50X (includes 2 PSUs and 7 fan trays)
2. Rack Mounting Kit—2 front-post brackets, 2 rear-post brackets and ears, 20 screws, and 2 ear-locking screws
3. Grounding Kit—grounding plate, lug, and screws
4. 2 x AC power cords (included with AC PSUs only)
5. 2 x DC power cords (included with DC PSUs only)
6. Documentation—*Quick Start Guide* (this document) and *Safety and Regulatory Information*

Overview

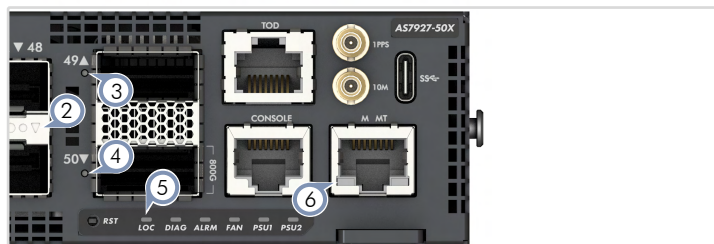


1. 40 x 25G SFP28 ports
2. 8 x 50G SFP56 ports
3. 1 x 400G QSFP-DD port, 1 x 800G QSFP-DD800 port
4. Reset button
5. System LEDs
6. ToD RJ-45 timing port
7. RJ-45 console
8. 1000BASE-T RJ-45 management port
9. 1PPS/10MHz I/O connectors
10. USB Type C storage port
11. Product label
12. 2 x DC or AC PSUs
13. 7 x fan trays

Status LEDs

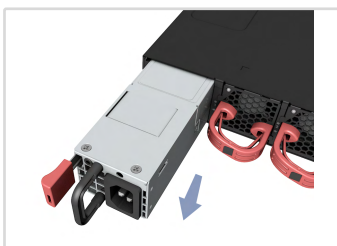


1. **SFP28 Port LEDs (1-40):** Amber (valid 1G/10G/25G link), Flashing (activity)
2. **SFP56 Port LEDs (41-48):** Green (valid 50G link), Flashing (activity)
3. **QSFP-DD Port LED (49):** Blue (400G), Flashing (activity) Cyan (200G), Flashing (activity)
4. **QSFP-DD Port LED (50):** Magenta (800G), Flashing (activity)



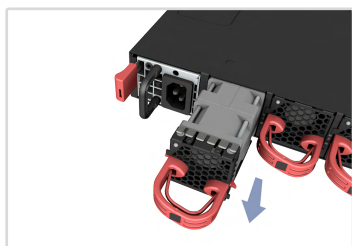
5. **System LEDs:**
LOC — Blinking Amber (switch locator)
DIAG — Green (OK), Red (fault)
ALARM — Off (OK), Red (alarm)
FAN — Green (OK), Red (fault), Off (system normal)
PSU1/2 — Green (OK), Red (fault), Off (PSU not present)
6. **RJ-45 Management Port LEDs:** Left (link), Right (activity)

FRU Replacement



PSU Replacement

1. Remove the power cord.
2. Press the release latch and remove the PSU.
3. Install replacement PSU.



Fan Tray Replacement

1. Loosen the fan tray screw.
2. Pull out and remove the fan tray.
3. Install replacement fan tray.



Installation



Warning: For a safe and reliable installation, use only the accessories and screws provided with the device. Use of other accessories and screws could result in damage to the unit. Any damages incurred by using unapproved accessories are not covered by the warranty.

Avertissement: Pour une installation sûre et fiable, utilisez uniquement les accessoires et les vis fournies avec l'appareil. L'utilisation d'autres accessoires et vis pourrait endommager l'appareil. Les dommages causés par l'utilisation d'accessoires non approuvés ne sont pas couverts par la garantie.



Caution: The device must be installed in a restricted-access location.

Attention: L'appareil doit être installé dans un emplacement à accès restreint.



Caution: The device includes plug-in power supply (PSU) and fan tray modules that are installed into its chassis. Make sure all installed modules have a matching airflow direction (front-to-back or back-to-front).

Attention: L'appareil comprend des modules d'alimentation et de modules de ventilation installés dans son châssis. Assurez-vous que tous les modules installés ont une direction d'air adaptée (avant-arrière ou arrière-avant).



Note: The device has the Open Network Install Environment (ONIE) software installer preloaded, but no software image.



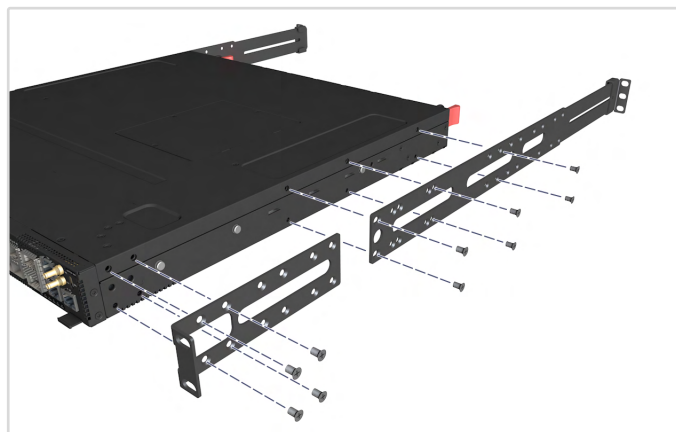
Note: The drawings in this document are for illustration only and may not match your particular model.

1 Mount the Device



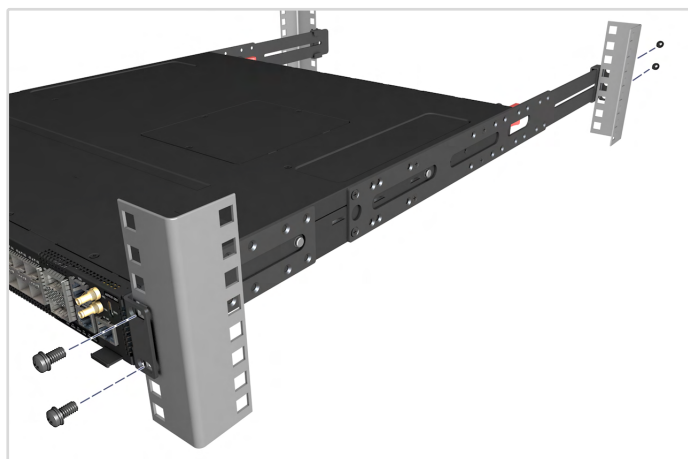
Caution: This device must be installed in a telecommunications room or a server room where only qualified personnel have access.

Attention: Cet appareil doit être installé dans une salle de télécommunications ou une salle de serveurs où seul le personnel qualifié a accès.



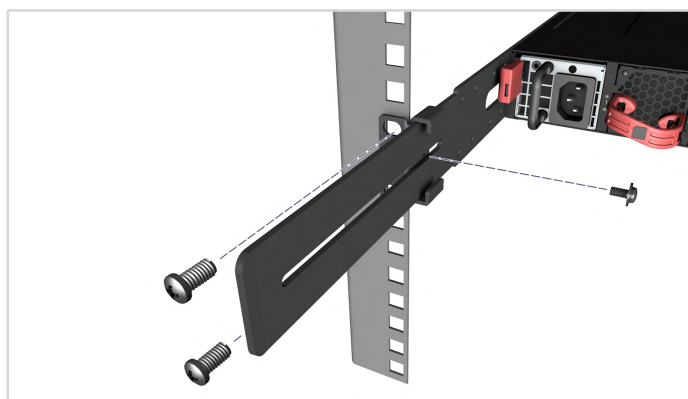
1. Attach the Brackets

Use the included screws to attach the front- and rear-post brackets.



2. Mount the Switch

Mount the switch in the rack and secure it with rack screws.



3. Lock the Rear-Post Brackets

Use the included screws to lock the position of the rear-post brackets.

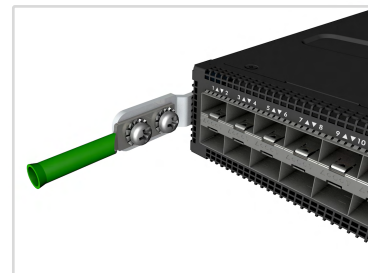
Optional Slide-Rail Installation

An optional slide-rail kit is available for rack installation. Follow the instructions in the install guide provided with the slide-rail kit.



Note: Stability hazard. The rack may tip over causing serious personal injury. Before extending the rack to the installation position, read the installation instructions. Do not put any load on the slide-rail mounted equipment in the installation position. Do not leave the slide-rail mounted equipment in the installation position.

2 Ground the Device



Verify Rack Ground

Ensure the rack on which the device is to be mounted is properly grounded and in compliance with ETSI ETS 300 253. Verify that there is a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).

Attach Grounding Wire

Attach a grounding wire (#10 AWG, green with yellow stripe) (not

included) to the grounding point on the device. Then connect the other end of the wire to rack ground.

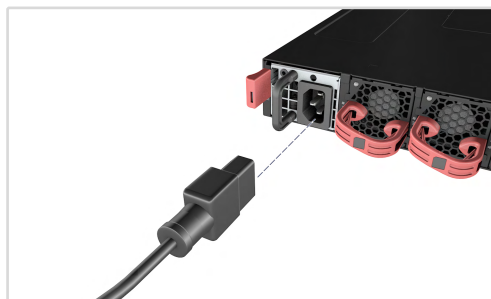
Use two M5 screws to attach the ground plate to the side of the device. Attach a grounding wire with a grounding lug (Panduit LCCF6-14A-L or equivalent, not included) to the ground plate using two M6 screws and washers. The grounding lug should accommodate #10 AWG stranded copper wire (not included).



Caution: This device has a separate protective earthing terminal provided on the chassis in addition to the grounding pin of the power supply cord. This separate protective earthing terminal must be permanently connected to earth ground and the installation must be performed by a qualified professional.

Attention: Cet appareil dispose d'une borne de mise à la terre de protection séparée prévue sur le châssis en plus de la broche de mise à la terre du cordon d'alimentation. Cette borne de terre de protection séparée doit être connectée en permanence à la terre et l'installation doit être réalisée par un professionnel qualifié.

3 Connect Power



Install one or two AC or DC PSUs and connect them to an AC or DC power source.



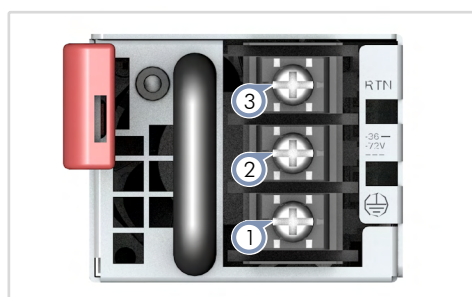
Caution: Use a UL/IEC/EN 60950-1 and/or 62368-1 certified power supply to connect to a DC converter, and a #10 AWG copper wire (for a -36 to -72 VDC PSU) to connect to a DC PSU. Tighten the screws to a torque of 1.75 N.m (15.49 lbf.in).

Attention: Utilisez une alimentation certifiée UL/IEC/EN 60950-1 et/ou 62368-1 pour vous connecter à un convertisseur DC, et un fil de cuivre #10 AWG (pour une alimentation -36 à -72 VDC) pour vous connecter à une alimentation DC. Serrez les vis à un couple de 1,75 N.m (15,49 lbf.in).



Caution: All DC power connections should be performed by a qualified professional.

Attention: Toutes les connexions d'alimentation CC doivent être effectuées par un professionnel qualifié.



1. Connect the ground wire / protective earth.
2. Connect the -36 – -72 VDC wire.
3. Connect the DC return wire.

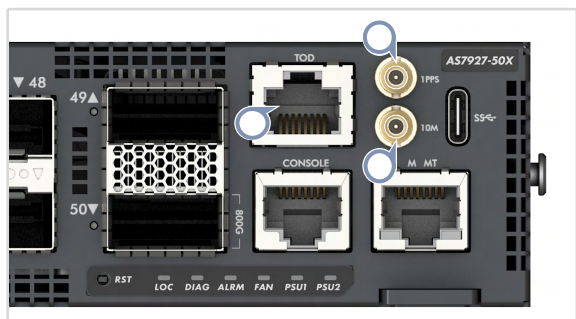
4 Make Network Connections



QSFP-DD/QSFP28/SFP28 Ports

Install transceivers and then connect fiber optic cabling to the transceiver ports. Alternatively, connect AEC/AOC/DAC cables directly to the QSFP-DD/QSFP28/SFP28 slots.

5 Connect Timing Ports



TOD Port

Use a shielded cable to connect the Time-of-Day (TOD) RJ-45 port to other devices that use these synchronization signals.

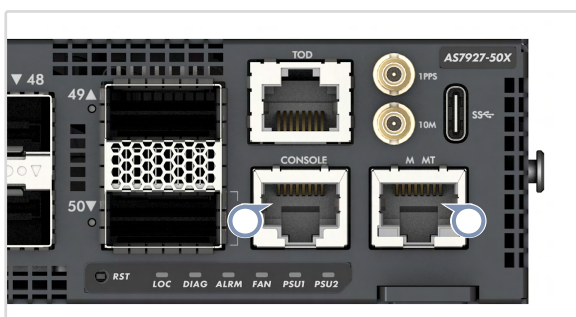
1PPS Port

Use a coax cable to connect the 1-pulse-per-second (1PPS) port to another synchronized device.

10 MHz Port

Use a coax cable to connect the 10 MHz port to another synchronized device.

6 Make Management Connections



RJ-45 Console Port

Use an RJ-45-to-DB-9 null-modem console cable (not included) to connect to a PC running terminal emulator software. Use a USB-to-male DB-9 adapter cable (not included) for connections to PCs that do not have a DB-9 serial port.

Configure the serial connection: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.

Console cable pinouts and wiring:

Device's RJ-45 Console	Null Modem	PC's 9-Pin DTE Port
6 RXD (receive data)	<-----	3 TXD (transmit data)
3 TXD (transmit data)	----->	2 RXD (receive data)
4,5 SGND (signal ground)	-----	5 SGND (signal ground)

Mgmt RJ-45 Port

Connect Category 5, 5e or better twisted-pair cable.

Hardware Specifications

Size (WxDxH)	438.4 x 450 x 43.7 mm (17.26 x 17.72 x 1.72 in.)
Weight	9.78 kg (21.56 lb), with two installed PSUs
Temperature	Operating: 0° C to 40° C (32° F to 104° F) Transportation: -40° C to 85° C (-40° F to 185° F) Storage: -40° C to 85° C (-40° F to 185° F)
Humidity	Operating: 5% to 95% (non-condensing)
System Input Rating	AC Input: 100-127 VAC, 50/60 Hz, 7.8 A Max 200-240 VAC, 50/60 Hz, 3.8 A Max DC Input: -36 – -72 VDC, 28-14 A Max

Regulatory Compliances

Emissions	EN 55032 EN 61000-3-2 EN 61000-3-3 FCC Title 47, Part 15, Subpart B, Class A VCCI-CISPR 32 BSMI Class A
Immunity	EN 55035 IEC 61000-4-2/3/4/5/6/8/11
Environmental	Storage: ■ ETSI EN 300 019-1-1 Class 1.1 ■ Temperature: -40° C to 85° C (-40° F to 185° F) Transportation: ■ ETSI EN 300 019-1-2 Class 2.3 ■ Temperature: -40° C to 85° C (-40° F to 185° F) Operating Conditions: ■ ETSI EN 300 019-1-3 Class 3.2 ■ Temperature: -40° C to 65° C (-40° F to 149° F) ■ Relative Humidity: 5% to 95%
Safety	UL (CSA 22.2 No 62368-1 & UL 62368-1) CB (IEC/EN 62368-1)