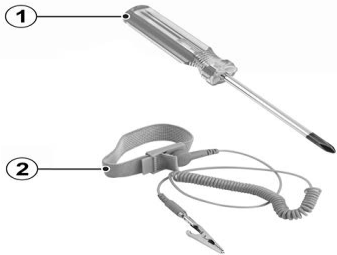# 9920 Network Packet Broker Chassis and Accessories Quick Reference

9920-NPB-8
XN-ACPWR-1600W-F
XN-DCPWR-1600W-F
9920-FAN-F
XN-4P-RMKT303

Follow these steps to get your chassis ready for use.
For complete installation instructions see the *9920 Network Packet Broker Hardware Installation Guide* at www.extremenetworks.com/support/documentation
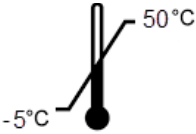
Necessary Tools

1	#2 Phillips screwdriver (magnetic screwdriver recommended)	**2**	ESD-protective wrist strap

1 Prepare the Site

The installation site must meet the following requirements:

- Appropriately grounded power receptacles located within 1.8 m (6 ft.)
- A readily accessible device for disconnecting power, such as a breaker or master switch
- Network cabling within reach
- Clearance of at least of 7.6 cm (3.0 in.) on all sides, for proper ventilation
- Temperature between -5°C (23°F) and 50°C (122°F) -- or as noted in "Operating Temperature:" -- with fluctuations of less than 10°C (18°F) per hour

2 Unpack the Box

Remove the packing material, and then verify that all of the following components are included:

1	9920-NPB-8 chassis	**6**	Mounting ears
2	4-post rack mount kit	**7**	Mounting ear screws
3	QRG (this document)	**8**	1 USB-A to USB-A cable
4	4 screw hole rack to square hole rail adapters	**9**	9 blanks
5	2 rails	**10**	Rail screws

If the 9920-NPB-8 appears to be damaged, contact Extreme Networks. See "Getting Help" for more information. Extreme Networks does not include power input cords with this product.

3 Install the 9920-NPB-8

You can install any 9920-NPB-8 in a standard 19-inch equipment rack.

Mount your 9920-NPB-8 in a standard four-post equipment rack using the mounting kit provided
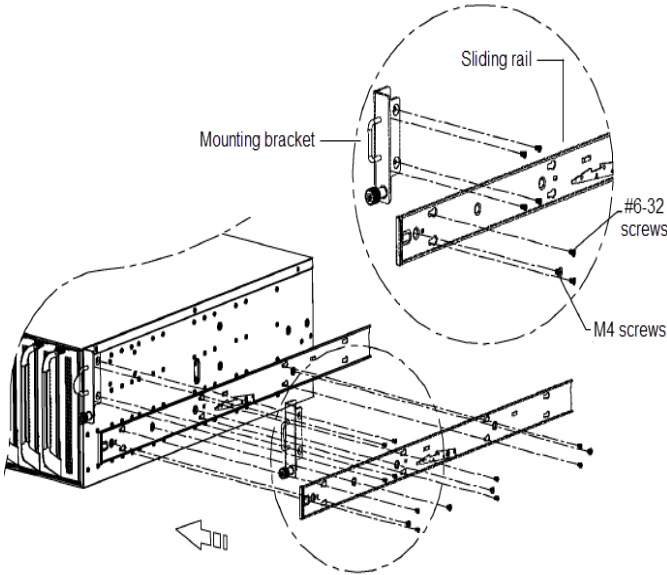1. Locate 4U of rack space to use to install the Exreme 9920.
2. Separate the inner sliding rails from the outer rails. Note which direction the sliding rails slide from the outer rails for correct installation.

Attaching Sliding Rails and Mounting Brackets
3. Fasten six #6-32 guide screws on one side and at the bottom of the device. Tighten each screw to 3.5 in-lb (0.4 N m) so that the sliding rail can fit onto them. These screws support the sliding rail when it is mounted in the rack.
4. Position the sliding rails onto the guide screws.
5. Fasten the M4 screws in the 4 available holes of a sliding rail while the rail is in position. Tighten the guide screws.
6. Attach a mounting bracket using the provided #6-32 screws. The holes to attach the mounting bracket are near the top and the front
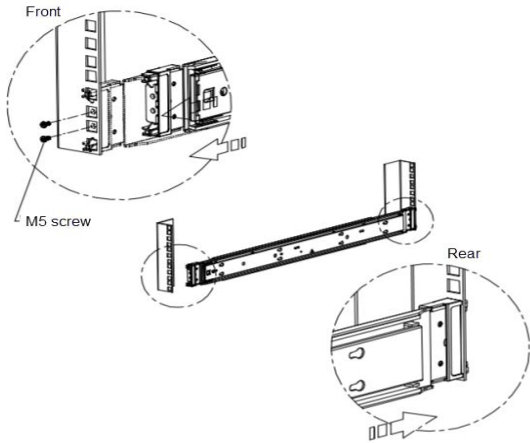
of the device. The mounting bracket is flush with the faceplate of the device, and the thumb screw is in the lower position when the mounting bracket is attached correctly.
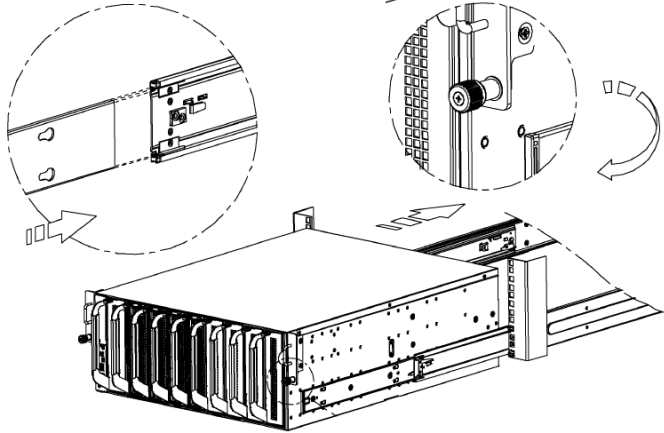7. Repeat steps 3 through 6 for the other side of the device.

Attaching the Outer Rails to the Rack
8. Prepare the rack by inserting the M5 cage nuts. The M5 cage nuts should be inserted into the bottom hole of the second rack unit from the top of the chosen location. For example, if the rack location for the device rack units 27 through 30, the M5 cage nuts are inserted in the bottom hole of rack unit 29. No cage nuts are inserted in the bottom two rack units of the chosen location (rack unit 28 in the example).
9. Slide the yellow locking sliders to the middle of each rail so that the retention hooks latch into the rack.
10. Insert the rail so that the retention hooks latched in the middle hole of the two bottom most rack units for the device are spaced correctly. The holes are the middle holes on rack unit 27 and rack unit 28 from the previous example.
11. Slide the yellow locking sliders outward from the middle of the rail, so that the small yellow fingers prevent the latches from being undone.
12. Use four M5 screws and washers on the positions with threads to secure the sliding rails in place. This is the top hole on rack unit 27 and the bottom hole on rack unit 28 from the previous example.

Rack-Mounting the Chassis
13. Pull the middle rails, and the raceways inside them, to full extension from the rack so that they lock into place.
14. Align the sliding rails that are attached to the 9920-NPB-8 with the middle rails on the rack and slide the device along the rails until it reaches the extension latch.
15. Toggle the extension latch on the inner rails and finish sliding the device into the rack.
16. Secure the mounting brackets to the rack by screwing the thumbscrews on the mounting brackets into the installed M5 cage nuts.

4 Grounding the Chassis

Although optional, it is best practice to ground the 9920-NPB-8. Grounding points with integrated pem-nuts are provided on the back of the chassis.

See the *9920 Network Packet Broker Hardware Installation Guide* for more details at www.extremenetworks.com/documentation/product-type/hardware/.

Safety Notices

Caution! Shock hazard! Disconnect all power inputs before servicing.

Electrical Hazard: Only qualified instructed or skilled personnel should perform installation, repair, or disassembly procedures.
Risques d'électrocution: Seul un personnel qualifié ou expérimenté peut effectuer les procédures d'installation, de réparation ou de démontage.

Warning: Extreme Networks 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: Extreme Networks alimentations n'ont pas d'interrupteurs pour allumer ou éteindre l'appareil. Avant l'entretien, débranchez tous les cordons d'alimentation pour couper l'alimentation de l'appareil. Assurez-vous que ces connexions sont facilement accessibles.

Warning: This equipment is designed for installation in restricted access locations and suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75, not suitable for use in locations where children are likely to be present.
Avertissement: Cet équipement est conçu pour être installé dans des endroits à accès restreint et peut être installé dans des salles informatiques conformément à l'article 645 du Code national de l'électricité et à la norme NFPA 75, et ne peut être installé dans des endroits où des enfants sont susceptibles d'être présents.

Warning: A dedicated Listed circuit breaker rated at 15A is to be used for each power supply connection.
Avertissement: Un disjoncteur certifié 15A et dédié à l'installation doit être utilisé pour chaque connexion d'alimentation.

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

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.
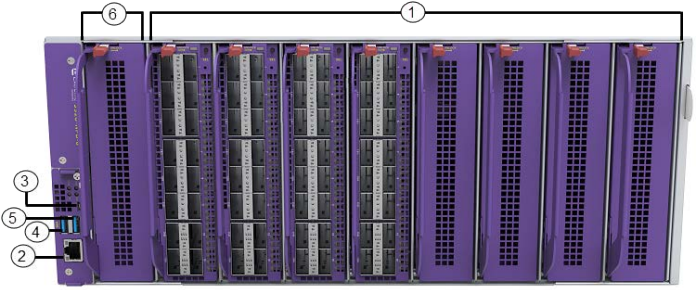
Warning: Do not use optical instruments to view the laser output. The use of optical instruments to view laser output increases eye hazard. Use only UL/CSA, IEC/EN60825-1/-2 recognized pluggable modules.
Avertissement: Ne pas utiliser d'instruments optiques pour regarder l'extrémité du laser. L'utilisation d'instruments optiques pour regarder l'extrémité du laser représente un danger pour les yeux. Utilisez uniquement des modules certifiés UL/CSA, IEC/EN60825-1 /-2.
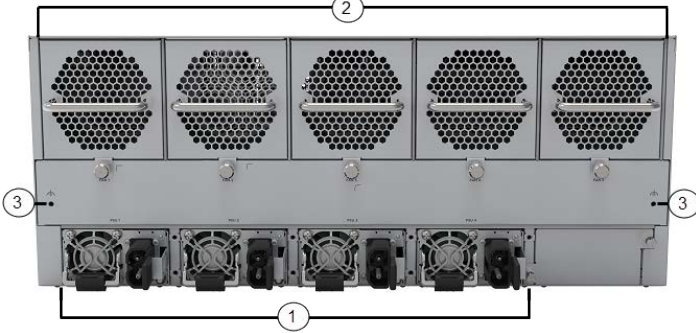
Hardware Components

Figure 1   9920-NPB-8: Front

1	Interface module slots	**4**	USB Type A host port
2	RJ-45 OOB management port	**5**	USB Type A console port (not host)
3	Mini USB serial console port	**6**	Feature slot*

Note: *Future capability

Figure 2   9920-NPB-8: Rear

1	Power supply modules	**3**	Grounding points
2	Fan modules		

For component details, see the *9920 Network Packet Broker Hardware Installation Guide*.

Operating Conditions

Operating Temperature:
-5°C (23°F) to 50°C (122°F) up to 1800 m (5905 ft)
Storage Temperature:
-40°C to 70°C (-40°F to 158°F)
Operating Relative Humidity:
5% to 95% (non-condensing)

Interface

Each 9920-NBP-8 includes a Mini USB serial console port, a USB Type A host port, a USB Type A console port, and an RJ-45 management port. A feature slot is provided for future capability.

Interface Modules

The 9920-NPB-8 can host up to 8 interface modules.

9920-16C	16 x 40 GbE QSFP28 ports
9920-4D	4 x 100 GbE QSFP-DD ports

Power Specification

9920-NPB-8	AC Input: 100-120/200-240Vac, 50/60Hz, 3.5A/1.8 A Max. for each PSU
	DC Input: DC Input -48 - -60Vdc, 7.0A Max. for each PSU

Power Supply and Fan Options

Each 9920-NPB-8 includes 5 unpopulated fan slots, and 4 unpopulated power supply slots. The 9920NPB-8 requires 5 fan modules for normal operation. A minimum of one power supply unit is also required. Up to four power supply units can be used for redundancy and system requirements.

XN-ACPWR-1600W-F	1600W AC power supply, Front-to-Back airflow
XN-DCPWR-1600W-F	1600W DC power supply, Front-to-Back airflow
9920-FAN-F	Fan unit, Front-to-Back airflow

Available Rack-Mount Kit

XN-4P-RKMT303	Four-post mounting kit for 9920

Getting Help

For additional support related to the 9920-NPB-8 or this document, contact Extreme Networks using one of the following methods:

Product Documentation	https://www.extremenetworks.com/support/documentation/
Global Technical Assistance Center (GTAC)	Phone: 1-800-998-2408 (toll-free in U.S. and Canada) or +1-408-579-2826. For the support phone number in your country, visit: http://www.extremenetworks.com/support/contact/
GTAC Knowledge	Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance. Visit: https://extreme-networks.my.site.com/
The Hub	A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. The community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC. Visit: https://community.extremenetworks.com
Support Portal	Manage cases, downloads, service contracts, product licensing, and training and certifications. Visit: http://extreme-networks.my.site.com

Notice

Legal Notices

Trademarks

Warranty

Warranty information for the Extreme 9920 is located online at:
www.extremenetworks.com/support/policies/

Regulatory and Compliance Information

Federal Communications Commission (FCC) Notice

This device complies with Part 15 of the 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.

NOTE: 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.

WARNING: 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-3 (A)/NMB-3(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 dicté par le Ministère des Communications du Canada.

Class A ITE Notice

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

Product Safety

This product complies with the following international safety standards:

- UL 62368-1
- UL 60950-1
- CAN/CSA C22.2 No. 62368-1-14
- CAN/CSA C22.2 No. 60950-1-07
- IEC 62368-1
- IEC 60950-1
- EN 62368-1
- EN 60950-1
- 2014/35/EU

Optical Module Compliance

Extreme Networks pluggable optical modules and direct-attach cables meet the following regulatory requirements:

- UL and/or CSA registered component for North America
- Class 1 Laser Product
- FCC 21 CFR Chapter 1, Sub-chapter J in accordance with FDA & CDRH requirements
- IEC/EN 60825-1:2007, IEC/EN 60825, European Standard

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.

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

Battery Warning — Taiwan

警告

如果更換不正確之電池型式會有爆炸的風險，

請依製造商說明書處理用過之電池。

Battery Notice

⚠️ **Warning:** This product contains a battery used to maintain product information. If the battery should need replacement it must be replaced by Service Personnel. Please contact Technical Support for assistance.
Risk of explosion if battery is replaced by an incorrect type. Dispose of expended battery in accordance with local disposal regulations.
Avertissement: Ce produit renferme une pile servant à conserver les renseignements sur le produit. Le cas échéant, faites remplacer la pile par le personnel du service de réparation. Veuillez communiquer avec l'assistance technique pour du soutien.
Il y a risque d'explosion si la pile est remplacée par un type de pile incorrect. Éliminez les piles usées en conformité aux règlements locaux d'élimination des piles.

Hazardous Substances- China and Taiwan BSMI RoHS

Guidance concerning the China and Taiwan BSMI RoHS (Restriction of Hazardous Substances) directive for this Extreme Networks® product can be obtained on request.

Hazardous Substances - EU

This product complies with the requirements of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

European Waste Electrical and Electronic Equipment (WEEE) Notice

In accordance with Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE):

1. The symbol above indicates that separate collection of electrical and electronic equipment is required.
2. When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.
3. It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.
4. It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated.

For information about the available collection system, please contact Extreme Customer Support at +353 61 705500 (Ireland).

Extreme Networks

Extreme 9920

Quick Reference

9920-NPB-8

Extreme®