

# NetVanta 1748F

1700558F1#MC

# Quick Start

For more detailed information, visit [www.adtran.com](http://www.adtran.com)



## 1. Unpack the Switch and Check Contents



NetVanta 1748F



Rack Mounting Kit—Contains two brackets and eight screws for attaching the brackets to the switch.



Power Cord

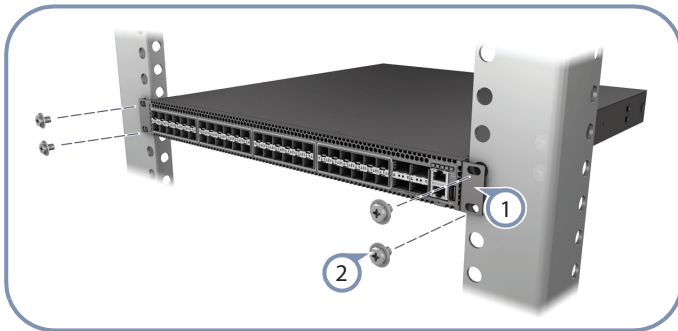


Console Cable—RJ-45 to DB-9



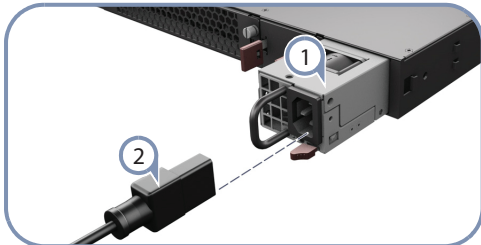
Documentation—*Quick Start Guide*

## 2. Mount the Switch



- 1 Attach the brackets to the switch.
- 2 Use the screws supplied with the rack to secure the switch in the rack.

## 4. Connect Power



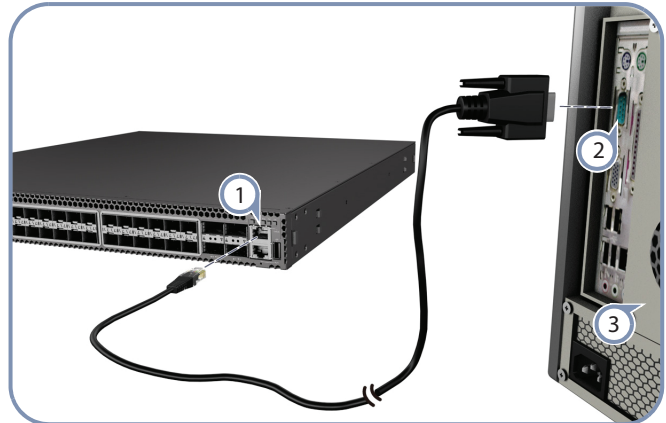
- 1 The switch is shipped with two universal AC power modules installed.
- 2 Connect an external AC power source to the modules.

## 5. Verify Switch Operation



- 1 Verify basic switch operation by checking the system LEDs. When operating normally, the PSU1/PSU2, Diag, and Fan LEDs should all be on green.

## 6. Perform Initial Configuration



- 1 At this point you may need to make a few basic switch configuration changes before connecting to the network. Connect a PC to the switch console port using the included console cable.
- 2 Configure the PC's serial port: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.
- 3 Log in to the command-line interface (CLI) using default settings: User "admin" with no password.

## Hardware Specifications

### Chassis Specifications

Size	438.4-mm W x 473-mm D x 43.4-mm H 17.26-inch W x 18.62-inch D x 1.71-inch H
Weight	8.395 kg (18.51 lb), with two installed power supply modules
Temperature	Operating: 0°C to 40°C (32°F to 104°F) Storage: -40°C to 70°C (-40°F to 158°F)
Humidity	Operating: Up to 95percent, noncondensing

### Power Supply Specifications

AC Input	100 to 240 VAC, 50/60 Hz
Maximum Current	6 A at 100 VAC 3 A at 240 VAC
DC Output	5 VDC at 3 A 12 VDC at 33 A
Power Supply	100 to 240 VAC, 50/60 Hz, auto-sensing; hot pluggable 400 W at 240 V/100 V per module
Power Consumption	165 W maximum
Size	54.5-mm W x 220-mm D x 40.25-mm H (2.15-inch W x 8.66-inch D x 1.58-inch H)

### Regulatory Compliances

Emissions	EN 55022:2010 Class A EN 61000-3-2:2009 Class A EN 61000-3-3:2008 FCC Class A VCCI Class A CE Mark
Immunity	EN 55024:2010 ICE 61000-4-2/3/4/5/6/8/11
Safety	UL (CSA 22.2 No 60950-1 and UL 60950-1) CB (IEC/EN 60950-1)

## Safety and Regulatory Information

### FCC Class A

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 generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

You may use unshielded twisted-pair (UTP) for RJ-45 connections, Category 3 or better for 10 Mbps connections, Category 5 or better for 100 Mbps connections, Category 5, 5e, or 6 for 1000 Mbps connections. For fiber optic connections, you may use 50/125 or 62.5/125 micron multimode fiber or 9/125 micron single-mode fiber.

### Laser Safety

#### Warning:

Fiber Optic Port Safety: Class A Laser Device

When using a fiber optic port, never look at the transmit laser while it is powered on. Also, never look directly at the fiber TX port and fiber cable ends when they are powered on.

### Power Cord Safety

Please read the following safety information carefully before installing the unit:

#### Warning:

- Installation and removal of the unit must be carried out by qualified personnel only.
- The unit must be connected to an earthed (grounded) outlet to comply with international safety standards.
- Do not connect the unit to an AC outlet (power supply) without an earth (ground) connection.
- The appliance coupler (the connector to the unit and not the wall plug) must have a configuration for mating with an EN 60320/IEC 320 appliance inlet.
- The socket outlet must be near to the unit and easily accessible. You can only remove power from the unit by disconnecting the power cord from the outlet.
- This unit operates under SELV (Safety Extra Low Voltage) conditions according to UL 60950-1. The conditions are only maintained if the equipment to which it is connected also operates under SELV conditions.

### Power Cord Set

The cord set must be UL-approved.

The minimum specifications for the flexible cord are:

- No. 18 AWG - not longer than 2 meters or 16 AWG
- Type SV or SJ
- 3-conductor

The cord set must have a rated current capacity of at least 10 A.

The attachment plug must be an earth-grounding type with NEMA 5-15P (15 A, 125 V) configuration.

### Warnings and Cautionary Messages

#### Warning:

- This product contains no user serviceable parts.
- Installation and removal of the unit must be carried out by qualified personnel only.
- When connecting this device to a power outlet, connect the field ground lead on the tri-pole power plug to a valid earth ground line to prevent electrical hazards.
- This switch uses lasers to transmit signals over fiber optic cable. The lasers are compliant with the requirements of a Class 1 Laser Product and are inherently eye safe in normal operation. However, you should never look directly at a transmit port when it is powered on.
- When selecting a fiber SFP/SFP+/QSFP+ device, considering safety, make sure that it can function at a temperature that is not more than the recommended maximum operational temperature of the product. You must also use an approved Laser Class 1 SFP/SFP+/QSFP+ transceiver.

#### Caution:

- Wear an anti-static wrist strap or take other suitable measures to prevent electrostatic discharge when handling this equipment.
- Do not plug a phone jack connector in the RJ-45 port. This may damage this device.
- Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.
- The switch includes plug-in power supply and fan tray modules that are installed into its chassis. All installed modules must have a matching airflow direction. That is, all modules must have a front-to-back (F2B) airflow direction, or all modules must have a back-to-front (B2F) airflow direction. The airflow direction of PSUs and fan trays is indicated by labels on the modules.
- Installing the switch in a rack requires two people: one should position the switch in the rack, while the other secures it using the mounting screws.