NetVanta 1110 Redundant Power Supply

P/N 1700531G1

Getting Started

The NetVanta 1110 RPS (P/N 1700531G1) is housed in a 1U-high rack mountable metal enclosure and includes a universal AC power supply. The NetVanta 1110 RPS provides a redundant +12 VDC source for powering the NetVanta 1238 PoE (P/N 1700599G2) switch processor and hardware and -48 VDC for PoE backup. It ships with two mounting brackets and screws, four rubber foot pads, power cord, and one-meter long RPS cable.

The NetVanta 1110 RPS can be installed in rackmount or tabletop configurations. The following sections provide step-by-step instructions for rack mounting and tabletop installation.

WARNING

The NetVanta 1110 RPS and the NetVanta 1238 PoE RPS base unit with which it is associated should be installed in a restricted access location as described in UL 60950-1.
Under full load, the NetVanta 1110 RPS may be hot to the touch.

CAUTION

The NetVanta 1110 RPS is intended

- *to be installed, maintained, and serviced by qualified service personnel only.*
- *for use with NetVanta 1238 PoE RPS (P/N 1700599G2) units only.*

Rack Mounting the RPS

The NetVanta 1110 RPS can be installed into a 19-inch equipment rack. The following steps guide you in mounting the RPS into a rack.

CAUTION

- *If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature specified by the manufacturer.*
- *Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.*
- *Be careful not to compromise the stability of the equipment mounting rack when installing this product.*
- *Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading the circuit might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.*
- *Reliable grounding of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).*

1. Securely fasten the mounting brackets to the NetVanta 1110 RPS using the screws provided with the unit.

   Important! *To avoid damaging the unit when attaching the mounting brackets, use only the screws supplied with the unit.*

2. To allow proper grounding, scrape the paint from the rack around the mounting holes where the RPS will be positioned.
3. Position the RPS in a stationary equipment rack either above or below the NetVanta 1238 PoE (see *Figure 1*).
4. Have an assistant hold the RPS in position as you install two appropriate mounting bolts through the unit's brackets and into the equipment rack.
5. Connect the NetVanta 1110 RPS to the NetVanta 1238 PoE following the steps in *Connecting the RPS and the NetVanta 1238 PoE*.

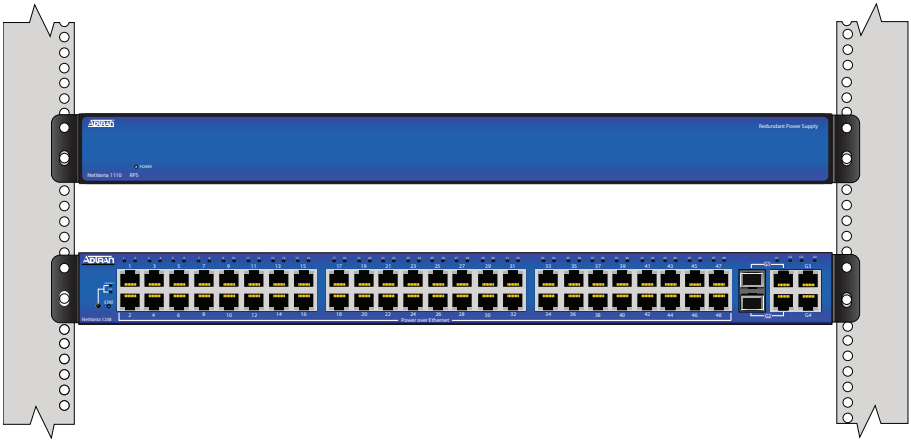

Figure 1. Rack Mounting the RPS

TABLETOP INSTALLATION OF THE RPS

1. Before installing the RPS on a horizontal surface, attach the rubber foot pads (included with the unit) to the bottom of each corner of the unit. The rubber feet cushion the unit, protect the casing from scratches and prevent it from scratching other surfaces.
2. Locate a sturdy, level tabletop or shelf that can support at least 30 pounds.
3. Place the RPS on the tabletop or shelf to the right of the NetVanta 1238 PoE with 2 inches of space between the units.

   Important! *For adequate ventilation, the RPS should only mounted to the right of the NetVanta 1238 PoE and 2 inches of space should be maintained between the units and other objects in the vicinity. Do not place the units on top of each other or block ventilation openings.*

4. Proceed to the steps given in *Connecting the RPS and the NetVanta 1238 PoE.*

CONNECTING THE RPS AND THE NETVANTA 1238 POE

1. With a Phillips head screwdriver, remove the cover plates from both the NetVanta 1110 RPS and the NetVanta 1238 PoE's RPS receptacles on the rear panels of the units.
2. Compare the **TOP** surfaces of the connectors on either end of the RPS cable. On one connector, the right edge of the tab covering the pins is flush with the pins, while on the other connector, the tab is offset to the right of the pins approximately 0.16 inch (see *Figure 3*).

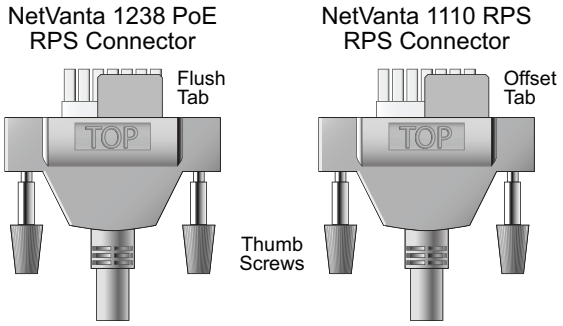

Figure 2. RPS Connectors

3. With the **TOP** surface of the connector with the offset tab facing upward, insert it into the receptacle labeled **RPS OUTPUT** located on the rear panel of the NetVanta 1110 RPS see *Figure 3*). Press the connector until the pins are fully inserted and the base of the connector is flush with the unit.

   Important! *Do not use excessive force. If the connector does not insert easily, check to ensure you are inserting the correct connector into the unit.*
4. Tighten the thumb screws located on either side of the connector.
5. With the **TOP** surface facing upward, insert the other RPS connector (with the flush tab) into the receptacle labeled **RPS** located on the rear panel of the NetVanta 1238 PoE (see *Figure 3*). Press the connector until the pins are fully inserted and the base of the connector is flush with the unit.
6. Tighten the thumb screws located on either side of the connector.
7. Proceed to *Powering the RPS and the NetVanta 1238 PoE*.

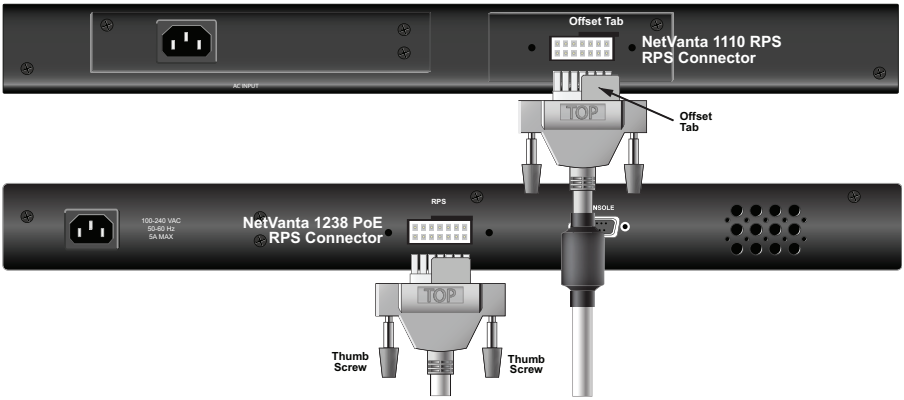

Figure 3. RPS to NetVanta 1238 PoE Connection

POWERING THE RPS AND THE NETVANTA 1238 POE

1. Plug the female end of the RPS unit's power cord (provided with the unit) into the power receptacle labeled **AC Input** on the rear panel of the unit.
2. Connect the other end (3-prong plug) of the RPS unit's power cord to the proper 100 to 130 VAC or 190 to 250 VAC grounded receptacle.
3. Plug the female end NetVanta 1238 PoE unit's power cord (provided with the unit) into the power receptacle labeled **110-240 VAC, 50-60 Hz, 5 A MAX** on the rear panel of the unit.
4. Connect the other end (3-prong plug) of the NetVanta 1238 PoE unit's power cord to the proper 100 to 130 VAC or 190 to 250 VAC grounded receptacle.

CAUTION

- *This unit shall be installed in accordance with Articles 300 and 400 of NEC NFPA 70.*
- *Power to the AC system must be from an appropriately rated and grounded source.*
- *Maximum recommended ambient operating temperature is 50°C.*

ADDITIONAL INFORMATION

For additional information about accessing and setting up the NetVanta 1238 PoE, refer to the *NetVanta 1230 Series Fast Ethernet Switch Quick Start Guide* (ADTRAN's Knowledge Base article 2518) supplied with your unit or online at http://kb.adtran.com.

For additional details on product features, specifications, installation, and safety, refer to *NetVanta 1230 Series Fast Ethernet Switch Hardware Installation Guide* (ADTRAN's Knowledge Base article 2517) online at *http://kb.adtran.com*.