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MR4600RPS 600 WATT Redundant Power Supply

MR4600RPS Product Overview

Networks are today at the heart of any business, requiring networks to be running and available 24 hours a day, 365 days a year. Often, network services are interrupted due to failure of the power system, be it a power supply in a switch or server, or the AC supply source. To overcome the problem of failing power supplies, communication gears are designed to derive all their internal DC voltages from a 12 Volts power bus. In normal operation this 12 Volt DC is generated by an AC to DC converter running off the 115 V AC power lines. The 12 Volts power bus is also connected to a special 12 Volts DC connector, through which the 12 Volts bus can be fed from an external redundant power supply unit, in case the internal AC to DC converter fails.

MR4600RPS Redundant Power Supply Units are deployed to insure network resiliency in critical applications. The MR4600RPS redundant power supply unit provides direct connections of redundant power to four network communication devices, each consuming up to 150 Watts. Housed in a 1 U high rack mount unit, the redundant power supply unit is typically connected to a secondary AC source (phase) different from the primary AC source used by all other communication gear, thus enabling continuous communication gear operation in cases when the primary AC power source is disrupted. Providing uninterrupted power to the communication gear will prevent them from reboot in case of power failure.

The system integration between MRV's line of managed data communication switches and the MR4600RPS redundant power supply unit provides customers with the fundamental building blocks to create an economicaland scalable networks, without sacrificing network performance and availability.

The MR4600RPS redundant power supply includes temperature sensors, which monitor the temperature of key components inside the redundat power supply. In the event of overheating of a monitored component inside the redundant power supply, that component will automatically shut-off, to prevent damage.

The MR4600RPS redundant power supply is Over-Current protected, and will not supply power to a connected communication gear which demands power in excess of the limit.

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MR4600RPS Feature Highlights:

- Supports any combination of up to four external 150 Watt devices
- Provides up to 600 Watts of 12 Volts power
- Directly connects to up to 4 OptiSwitch Family data communication switches
- Redundant power supply AC input connects to an AC source different than that used on other units
- Reliable Backup Power source
- Increase network uptime
- Easy to deploy and install
- 1 U rack mountable package
- Over-Heating protection
- Over-Load protection
- Over-Voltage protection
- Power supply operated under No-Load Conditions
- Prevents RE-BOOT in connected data communication switches in the event of internal power supply failure
- 4 DC power Cables included
- Front panel mounted LED's allow for easy management.

MR4600RPS properties

Physical Ports

DC Power Ports

- 4 independent DC power ports

AC Power Port

- 1 AC power port

Features

LEDs

- 4DC port status LED
- 1 fan status LED

AC Input Power

- Autoranging 90 to 264 Volts AC
- 1 fan status LED
- 47Hz to 63 Hz
- 682 Watts

DC Output Power

- 12 Volts DC
- Four outputs 12.5 Ampere each

Heat Dissipation

- 290 BTU/HR

DC Power Cables

- 4 cables provided
- Cable length 60" (152 cm) each
- 14 Pin IEC connectors on both ends

Weight

- 11 lbs (5 Kg)

Mechanical

- 17.34" (44 cm) x 11.19" (28.4 cm) x 1.7" (4.3 cm)

Safety

- UL 60950, CSA 60950, EN 60950, EN 60825, IEC 60950

Temperature

- Operating: -32 F to 104 F (0 C to 40 C)
- Non-Operating: -40 F to 158 F (-40 CC to 70 C)

Humidity

- 5% to 95% (non-condensing)

Vibration

- IEC 68-2-36, IEC 68-2-6

Shock

- IEC 68-2-29

Drop

- IEC 68-2-32

Electromagnetic Compatibility

• 47 CFR Part 2, 47 CFR Part 15, CSA C108.8, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, VCCI V-3

Supported Data Communication Devices

• For supporting external data communication devices in fully redundant mode, 4DC power cables are supplied. which directly connect the redundant power supply to any of the OptiSwitch MR family devices listed below:

- MR2228-S2C
- MR2252-S2C
- MR2326-S4C
- MR2324E-4C
- MR3312-4C
- MR3325-S2C

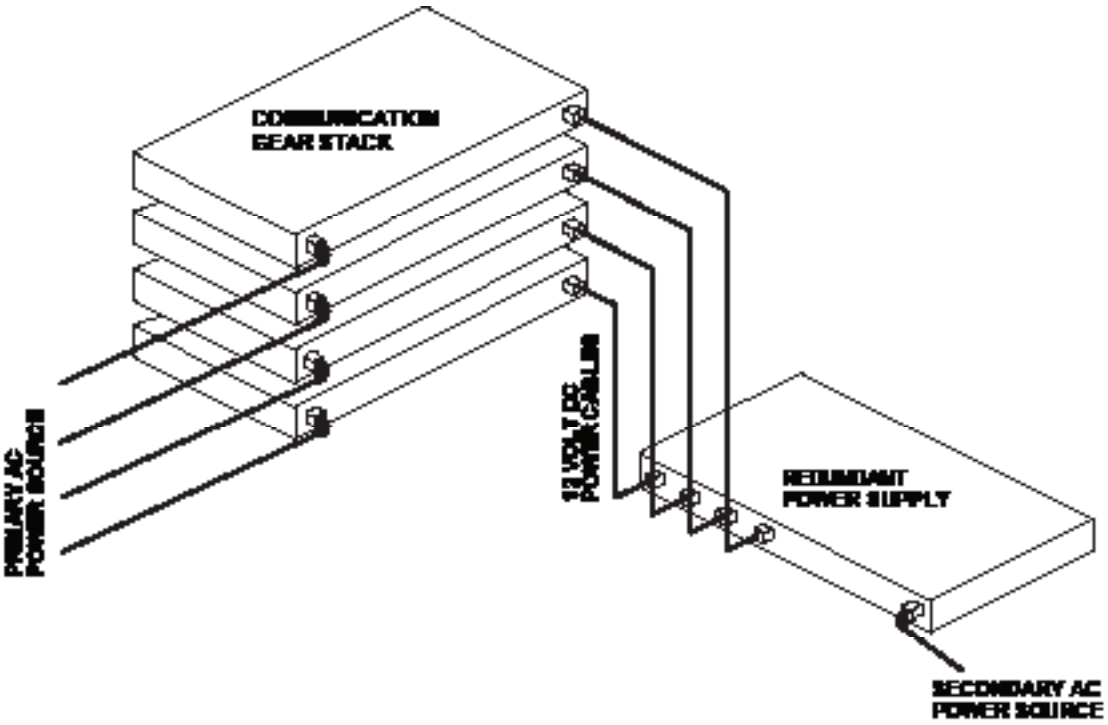

Figure 1, Redundant Power Supply Installation.

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Ordering Info	
MR4600RPS	600 WATT Redundant Power Supply
OptiSwitch MR Family	
MR2226-2C	L2 Managed Standalone Switch 24-ports 10/100BASE-T (RJ-45) and two Combo Gigabit ports each comprised of an RJ-45 and an SFP for uplink.
MR2228-S2C	SFP 1000Base-SX, Extended MM, 1310nm, 0-2km.
MR2252-S2C	L2 Stackable Switch 48 - ports 10/100BASE-T (RJ-45) and two Combo Gigabit ports each comprised of an RJ-45 and an SFP for uplink and two 1000BASE-T ports for stacking.
MR2226-POE	L2/4 Power Over Ethernet Stackable Switch 24-PORTS 10/100BASE-T (RJ-45) and two Combo Gigabit ports each comprised of an RJ-45 connector and an SFP.
MR2226-2C-POE	L2/4 Power Over Ethernet Switch 24-ports 10/100Base-T (RJ-45) and two Combo Gigabit ports each comprised of an RJ-45 connector and an SFP receptacle for uplink.
MR2324E-4C	L2/4 Power Over Ethernet Stackable Switch 24 - ports 10/100/1000Base-T Layer 2 Gigabit Ethernet standalone switch - 20 ports 10/100/1000Base-T Layer 2 Gigabit Ethernet Standalone switch - 20 ports 10/100/1000Base-T and 4 combo Gigabit ports each comprised of an RJ-45 and an SFP
MR2326-S4C	L2/4 Gigabit Ethernet Stackable Switch- 20 ports 10/100/1000Base-T and 4 combo Gigabit pports each comprised of an RJ-45 and an SFP plus 2 optional I/O module for 10G XFP uplink and IPv6 features.
MR3228-2C	Layer 3 Managed Switch 24/ 10/100Base - T ports, 2 Gigabit SFP ports and 2 10/100/1000 Base-T ports Ethernet Routing Standalone Switch.
MR3312-4C	Layer 3 Managed Switch - 12-port 10/100/1000 Ethernet Routing standalone Switch - 8 1000 Base T ports, 4 Gigabit combo ports each comprised of an RJ45 and an SFP.
MR3228-2C	Layer 3 Managed Switch 24/ 10/100Base - T ports, 2 Gigabit SFP ports and 2 10/100/1000 Base-T ports Ethernet Routing Standalone Switch.
MR3312-4C	Layer 3 Managed Switch - 12-port 10/100/1000 Ethernet Routing standalone Switch - 8 1000 Base T ports, 4 Gigabit combo ports each comprised of an RJ45 and an SFP.
MR3325-S4C	Layer 3 Managed Switch- A 44 ports 10/100/1000 Ethernet Routing Stackable Switch comprised of 40 10/1000 Base-T ports, 4 Gigabit combo ports each comprised of an RJ-45 and an SFP, and one optional I/O module for 10G uplink.
MR3349-S4C	Layer 3 Managed Switch 44 port 10/100/1000 Ethernet Routing Stackable Switch comprised of 40 10/100/1000Base-T, 4 Gigabit combo ports each comprised of an RJ-45 and an SFP, and on optional I/O module for 10G uplink.

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