Da Vinci MR4600RPS 600 Watt Redundant Power Supply Unit

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 DaVinci 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.

"Simplicity is the ultimate sophistication"

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 DaVinci family data communication switches.
- ► Redundant power supply AC input connects to an AC source different than that used on other units.
- ► Four independent DC power cords connect four external units to the redundant power supply.
- ► Reliable Backup Power source.
- ► Increases network uptime.
- ► Easy to deploy and install.
- ► 1 U rack mountable package.
- ► Over-Heating protection.
- ► Over-Load protection.
- ► Over-Voltage protection.
- ► Power suplply operates 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 LEDs allow for easy management.

MR4600RPS properties

Specifications

Electrical

DC Power Ports

4 independent DC power ports

AC Power Port

1 AC power port

LEDs

4 DC port status LEDs

1 fan status LED

AC Input Power

Autoranging 90 to 264 Volts AC

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

Physical

Dimensions

17.34” (44 cm) x 11.19” (28.4 cm) x 1.7” (4.3 cm)

Weight

11 lbs (5 Kg)

Environmemtal

Temperature

Operating - 32°F to 104°F (0°C to 40°C)

Non-Operating - -40°F to 158°F (-40°C to 70°C)

Humidity

5% to 95% (Non-condensating)

Vibration

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

Shock

IEC 68-2-29

Drop

IEC 68-2-32

Standards and Agencies

Safety

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

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, 4 DC power cables are supplied which directly connect the redundant power supply to any of the DaVinci family devices listed below:

- MR2228-S2C
- MR2252-S2C
- MR2324-4C
- MR2324E-4C
- MR3312-4C
- MR3325-S2C
- MR3349-S2C
- MR2226-S2CPOE

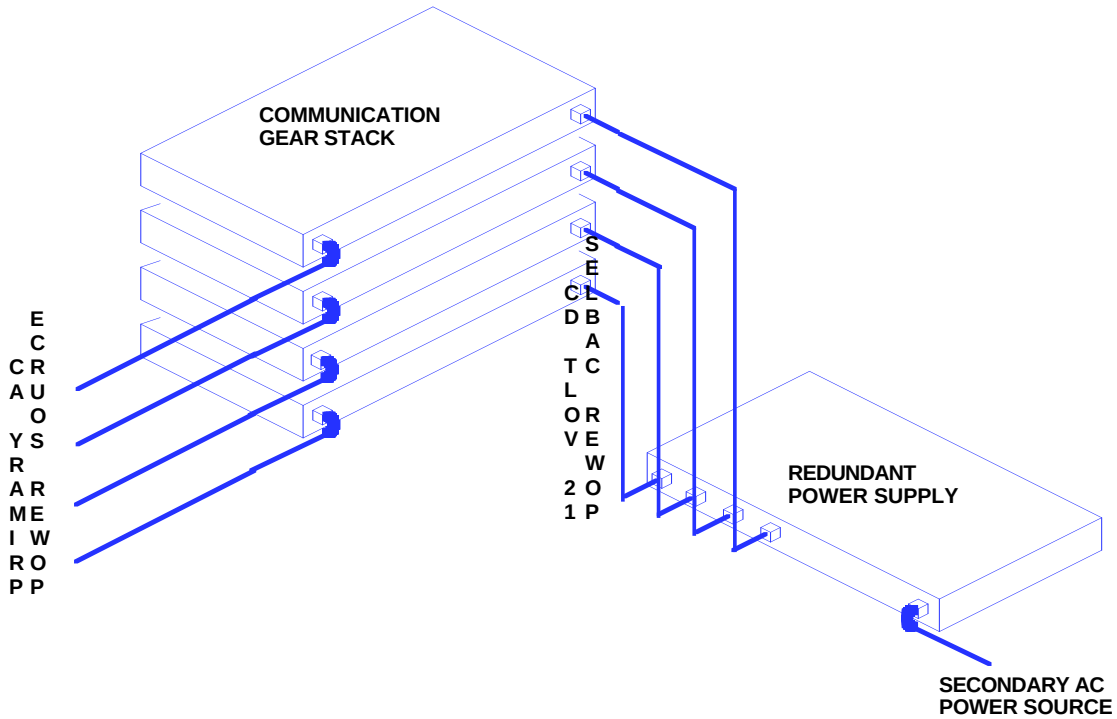

Figure 1, Redundant Power Supply Installation.

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