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Microsemi PD96XX Series

PD-9606G & PD-9612G

PD-RPS-1000



User Guide



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Note:

The information in this guide refers to PD-96xx series of Power over Ethernet Midspans, unless otherwise stated.

Note that Midspan is designed for indoor use **only**.

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1 Front Material

1.1 Model Numbers Definition:

- **PD-96xxG/ACDC/M:** 4 Pairs AC and DC Input family, where:
 - **xx:** Represents number of ports (6 or 12)
 - **AC:** Midspan has AC input
 - **DC:** Midspan has DC input, current sharing, and power backup features between two Midspans
 - **M:** Midspan includes PowerView Pro (refer to Section 7)
- **PD-RPS-AAAA:** Redundant Power Supply, where **AAAA** represents available power in **Watts**.

1.2 Electrical Compatibility Approvals

Microsemi 96xxG series complies with the following standards:

- FCC Part 15; class UTP cabling
- EN 55022 (CISPR 22); class B with UTP cabling
- EN 55024 (CISPR 24)
- Canadian ICES-003, class B

1.3 Safety Standard Approvals

Microsemi meets the following safety standards:

- UL/cUL per CSA/UL 60950-1
- GS mark per IEC60950-1

1.4 CE Marking

CE marking on this product indicates this product complies with 89/336/EEC (EMC Directive) and 73/23/EEC (Low Voltage Directive).



2 Safety Information

Read the following safety information before using your Power over Ethernet Midspan unit.

2.1 General Guidelines

Read the following safety information before carrying out any installation, removal, or maintenance procedure on the Power over Ethernet Midspan. Warnings contain directions to be followed for the safety of personal and product. Follow all directions carefully.

2.2 Warnings

- Read installation instructions in Section 4 before connecting Power over Ethernet Midspan to its power source.
- Read instructions in Section 4 before connecting Midspan-to-Midspan power backup.
- Midspan must use a grounded power cord, as defined in Section 2.3.
- This product relies on the building installation for short-circuit (over-current) protection. Use only a fuse or circuit breaker not higher than 15A for 120VAC (U.S.), or 10A for 230VAC (international).
- Do not work on the system, connect, or disconnect cables during periods of lightning.
- A voltage mismatch can cause equipment damage and can pose a fire hazard. If voltage indicated on the label is different from power outlet voltage, do not connect Power over Ethernet Midspan to this outlet.
- For shelf-mounted equipment, verify surface is stable and strong enough to support equipment. Do not stack more than **four** Power over Ethernet Midspan units.
- When disposing this product, follow all local laws and regulations.



- "DATA" and "DATA & POWER" ports of the Power over Ethernet Midspan are shielded RJ-45 data sockets. They cannot be used as Plain Old Telephone Service (POTS) sockets. Only connect RJ-45 data connectors to these sockets.
- Associated Ethernet wiring shall be limited to the inside of the building.

2.3 Power Cord

In case power cord is replaced, replacement must meet local requirements.

- To ensure a reliable connection to an AC mains supply, equipment provides an appliance IEC60320 inlet used for connecting a detachable power supply cord.
- Power socket outlet must be located near Midspan and easily accessible. *The only way of removing power from unit is by disconnecting the power cord from the outlet*
- This unit operates under SELV (Safety Extra Low Voltage) conditions, according to EN60950-1/IEC60950-1. Conditions are maintained only if the equipment to which unit is connected also operates under SELV conditions.

2.4 Power Cord Specifications by Country

- U.S.A. and Canada**
- Cord must be UL-approved or CSA certified.
 - Minimum specification for flexible cord is:
 - No. 18 AWG
 - Type SV or SJ
 - Three-conductor
 - Cord set must have a rated current capacity of at least 13A for PD-9612G/ACDC/M, PD-9606G/ACDC/M;
 - Attachment plug must be an earth-grounding type with a NEMA 5-15P (15A, 125V) or NEMA 6-15P (15A, 250V) configuration.



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- Denmark** Supply plug must comply with section 107-2-D1, standard DK2-1a or DK2-5a.
- Switzerland** Supply plug must comply with SEV/ASE 1011.
- France and Peru** IT supplies cannot power this unit. If your supplies are an IT type, unit must be powered by 230V (2P+T) via an isolation transformer with a 1:1 ratio, and with secondary connection point labeled Neutral and connected directly to ground.
- U.K** Power over Ethernet Midspan is covered by General Approval NS/G/12345/J/100003, for indirect connection to a public telecommunications system.



3 About the Power over Ethernet Midspan

Microsemi's family of Power over Ethernet Midspans 96xx inject power over data-carrying Ethernet cabling. Employing these devices reduces the need for AC outlets, local UPS and AC/DC adapters near PDs.

PD-9606G/9612G Midspans support 6 and 12 ports respectively, in a 10/100/1000BaseTx Ethernet network, over TIA/EIA-568 category 5/5e/6 cabling. 96xxG family can provide up to 95W according to the new PoH (Part of HDBaseT) standard. 96xxG series implements a Twin High (TH) PSE system, delivering 47.5W over 2 pairs (total 95W). DC power is fed over both spare and data pairs of wires within a cable (1/2, 3/6, 4/5, and 7/8) to terminal units.

RPS family can provide backup or additional power to PD-96xxG products.

Power over Ethernet Midspan normally powers devices that are Power over Ethernet enabled or are equipped to receive power over Ethernet. These devices are called Powered Devices (PDs).

Features of the Power over Ethernet Midspan include:

- Safe and reliable power over an existing Ethernet infrastructure
- Remote management using Web control and/or SNMPv3
- Highest level of network security
- Safe solution that protects network infrastructure
- Standards compliant: PoH and 802.3at
- Provides safe Power + Data over a single RJ45 cable



3.1 10/100/1000BASE-TX Ports Definition

The following sections detail 96xxG ports and their functions.

3.1.1 Data Input Ports

Midspan has 6 or 12 10/100/1000Base-T **Data In** ports, located on PoE front panel (Figure 3-1), configured in a non-crossover manner (straight-wired).

These ports are designed to carry Ethernet data only (Tx/Rx) over:

- Standard 4-wire pairs (pins 1/2, 3/6, 4/5 and 7/8) (1000Base-T)
- 2-wire pairs (pins 1/2 and 3/6) (10/100Base-T)

3.1.2 Data and Power Output Ports

Midspan has 6 or 12 10/100/1000Base-T **Data & Power Out** ports, located on the front panel (see Figure 3-1). These ports are configured in a non-crossover manner (straight-wired) and carry Ethernet data over:

- Standard 4-wire pairs (pins 1/2, 3/6, 4/5, and 7/8) (1000Base-T)
- 2-wire pairs (pins 1/2 and 3/6) (10/100Base-T)
- PD-96xxG series carry DC power over 4-wire pairs (pins 4/5, 7/8 and pins 1/2, 3/6)



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Power over Ethernet Midspan is not a repeater; therefore maximum distance from Ethernet switch must not exceed 100 meters (328ft). Power over Ethernet Midspan is guaranteed to work only within this distance, as specified in IEEE 802.3 AT standard.

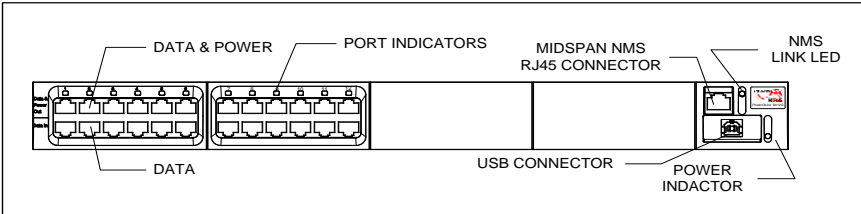


Figure 3-1: Power over Ethernet Midspan, Front View (PD-9612G)

3.2 Indicators

A set of indicators displays the status of the Power over Ethernet Midspan and its ports. Refer to Table 3-1 and Table 3-1 for details about status information during operation.

3.2.1 Power Indicator LED

Power Indicator LED on front panel displays power status of Power over Ethernet Midspan. When this LED is illuminated in green, Midspan is receiving AC power. For additional information refer to Table 3-1.

3.2.2 Port Indications

The following sections detail PD-96xxG port indicators.

3.2.2.1 PD-96xxG Midspan Series:

One bi-color (green and yellow) indicator per port displays port status:

- Green indicates terminal unit (PD) has been identified as "Power over Ethernet Enabled"; it is active and receiving power over 4-wire pairs.
- Yellow indicates terminal unit (PD) has been identified as "Power over Ethernet Enabled"; it is active and receiving power over 2-wire pairs.



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- Blinking green indicates port does not supply power and is inactive.

Note PDs that are not PoE-enabled devices are not powered by Midspan.

Table 3-1: Power Status Indications

Indicator	Color	Main Power Status	Remarks
Power Indicator	Off	Power supply unit is unplugged	
	Green	Power input is active	Power supply voltage is within limits
	Green light blinks once every second (only if power backup is connected)	Midspan power supply failure (disconnected or out of voltage range)	Unit receives backup power and continues to function normally. Maintenance measures should be taken whenever possible.



Table 3-2: Port Status Indications PD-96xx Series

Port LED Color	Port Load Conditions	Port Voltage
Off	Inactive load or unplugged port	Power to port is disconnected. No DC voltage present on port output lines.
Green	Active load is plugged in and complies with normal load conditions.	Continuous nominal DC voltage is present according to 4-Pairs configuration.
Yellow	Active load is plugged in and complies with normal load conditions.	Continuous nominal DC voltage is present on 2-wire pairs.
Green blinks once every second	Overload or short circuit	Power to port is disconnected. No DC voltage is present on port output lines.
Green blinks once every 0.5 seconds	Valid load. Total aggregated power exceeds predefined power budget	Power is not connected to port. No DC voltage is present on port output lines

3.3 Connectors

On Midspan’s front panel there’s a Console port. Using a standard USB cable, users can connect a terminal to this port and load software.

Note: USB connection requires 'CP210x Driver.exe' installation. Supplied CD provides the driver.

Console port is set to 38,400-baud for managed units and 19,200-baud for unmanaged units, 8 data bits, no parity, and 1 stop bit. Figure 3-2 displays pin connections for this connector.



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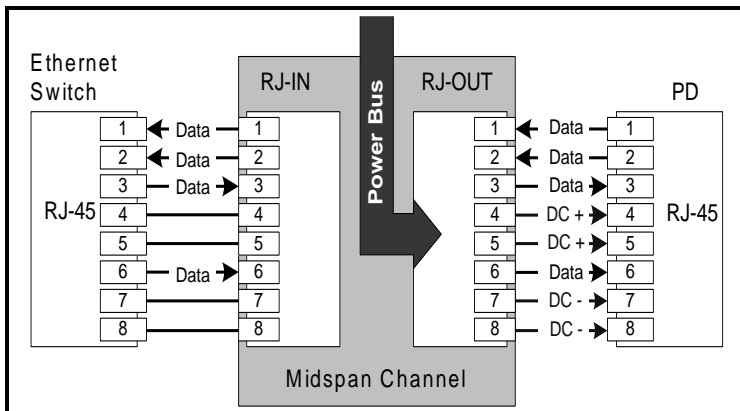


Figure 3-2: Connecting to Midspan

Each data port is configured, as shown in Figure 3-2, as data “Pass-Through” ports for all data pins (pins 1, 2, 3, 6, 4, 5, 7, and 8). Make sure you are using cabling of Category 5 or higher.



4 Power over Ethernet Midspan Installation

The following sections describe how to install a Power over Ethernet Midspan.

4.1 Background Information

As shown in Figure 4-1, Midspan is connected in series to an Ethernet switch/hub. Switch's data output terminals are connected to Midspan. Midspan delivers power over 4-wire twisted pairs (pins 7/8, 4/5 and pins 1/2, 3/6) in PD-96xxG series of Category 5e cabling, regardless to data quality. Most installations require Midspan to be rack-mounted.

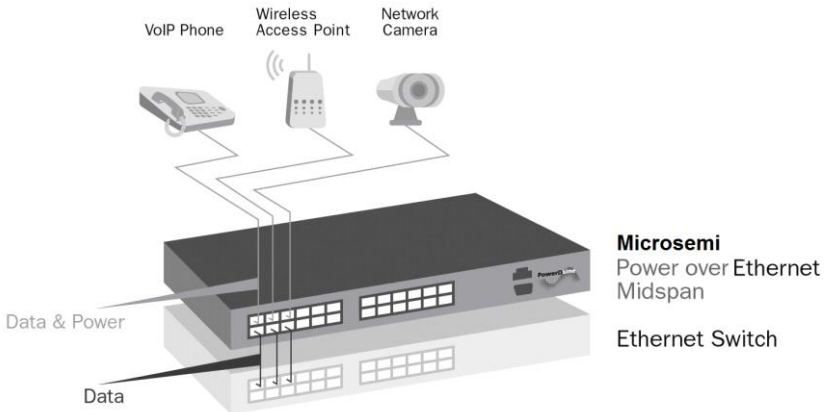


Figure 4-1: Typical Installation

4.2 Verifying Kit Contents

Unpack kit and verify the following items are included:

- Power over Ethernet Midspan
- Mounting brackets (for 19-inch racks) and a plastic cover
- Screws for assembling mounting brackets
- Self-adhesive rubber feet



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- User guide
- Power cord

Before proceeding, record unit's serial number in the rectangle below for future reference. Serial number is found on the information label at the back of the Power over Ethernet Midspan.

Serial Number

4.3 Rack Mounting Brackets

Midspan comes with 19-inch mounting brackets and screws.

To install Midspan into a 19-inch rack:

1. Remove self-adhesive rubber feet from the bottom surface.
2. Install brackets using two screws per side.

Note: Rack-mounting screws are not provided.

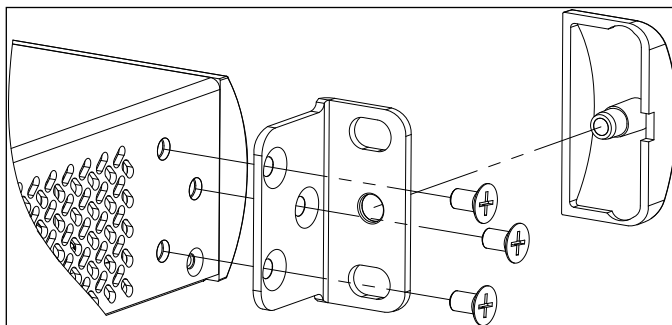


Figure 4-2: Installing Mounting Brackets

4.4 Installation Factors

- **Elevated Operating Ambient Temperature:** If installed in a closed or multi-unit rack assembly, operating ambient temperature in rack environment may be greater than room ambient temperature. Therefore, install



equipment in an environment compatible with manufacturer's maximum rated ambient temperature (T_{mra}).

- **Reduced Air Flow:** Install equipment in a rack in a manner that does not compromise the amount of airflow required for safe operation of equipment.
- **Mechanical Loading:** When mounting equipment in rack, ensure mechanical loading is even.
- **Circuit Overloading:** Take into consideration the connection of equipment to supply circuit and the effect overloading of circuits might have on over-current protection and supply wiring. Appropriate consideration of equipment nameplate ratings must be given when addressing this concern.
- **Reliable Grounding (Earthing):** Maintain reliable earthing of rack mounted equipment. Pay particular attention to supply connections, other than direct connections to branch circuit (for example, the use of power strips).

4.5 Connecting Ethernet Cables

Ports on Midspan's front panel are configured as "Pass Through" ports for eight (1, 2, 3, 6, 4, 5, 7, 8) conductors of RJ-45 connectors. Use Category 5 cabling when making connections.

1. Connect cables from Ethernet Switch to **DATA IN** ports (lower row on front panel).
2. Connect cables from PoH or IEEE 802.3at ready terminals (PDs) to corresponding **DATA & POWER OUT** ports (upper row on front panel).

4.6 Connecting Power Cables

When using an AC source to power Midspan, plug in the provided power cord to back AC connector.



4.7 Powering Up the Unit

Power over Ethernet Midspan has no on/off switch. To apply or remove power from Midspan, insert or remove power cable to receptacle (AC) on the back panel of the unit.

With power applied;

- Midspan powers-up.
- Internal fan operates.
- Device runs its Power-On Self-Test (POST), which takes less than 10 seconds. During POST, all ports are disabled and indicators illuminate in the following sequence:
 - Port indicators and Power indicators illuminate in green.
 - Power indicator remains lit in green; port indicators are off.

Ports are now ready (enabled) for normal operation.

If LEDs are not lit, refer to Troubleshooting on page 19.



5 Troubleshooting

The following sections describe troubleshooting procedures to be used if you encounter any problems with your unit.

5.1 Preliminary Steps

If you have a problem, verify:

- Power is applied to Midspan.
- A crossover-type Ethernet cable has not been used.
- Ethernet cable from network is connected to DATA port.
- Ethernet cable to PD is connected to DATA & POWER port.
- Cable pairs are attached to their corresponding ports.



5.2 Troubleshooting Steps

This section provides a symptom and resolution sequence to assist in troubleshooting of minor operating problems. If steps given do not solve your problem, do not hesitate to call your local dealer for further assistance. Refer to Table 5-1.

Table 5-1: Troubleshooting Steps

Symptom	Corrective Steps
<i>Midspan does not power up</i>	<ol style="list-style-type: none">1. Make sure power cord is properly connected.2. Verify voltage at power inlet is between 100 and 240VAC.3. Remove and reapply power to device and check indicators during power up sequence.
<i>A port indicator is not lit and corresponding PD does not operate.</i>	<ol style="list-style-type: none">1. Verify port is enabled (Midspan did not detect a PD).2. Verify PD is designed for Power over Ethernet operation.3. Verify you are using a standard Category 5/5e/6, straight-wired cable, with four pairs.4. If an external power splitter is in use, replace it with a viable splitter.5. Verify PD is connected to DATA & POWER OUTPUT port.6. Try to reconnect the same PD to a different port on the same Midspan or on another one. If it works, there is probably a faulty output port or RJ-45 connection.7. Verify port shutdown command was not issued via Web management.



Table 5-1: Troubleshooting Steps

Symptom	Corrective Steps
<i>End device operates, but there is no data link.</i>	<ol style="list-style-type: none">1. Verify port indicator on front panel is continuously lit.2. If an external power splitter is in use, replace it with a viable splitter.3. Verify that for this link you are using a standard UTP/FTP Category 5 straight (non-crossover) cabling, with all four pairs, and that link is 100 meters long or less.4. Try to reconnect the same PD to a different port on the same Midspan or on another one. If it works, there is probably a faulty port or faulty RJ-45 connection.



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6 Specifications

The following sections detail units' specifications.

6.1 Physical Specifications

Dimensions (H x W x D) 44 x 435 x 271 mm
(1.75" x 17.2" x 10.7")

P/N	Weight
PD-9612G/ACDC/M PD-9606G/ACDC/M PD-RPS-1000	4.8Kg (10.6lb)


6.2 Environmental Specifications

Operating Temperature	0° to +40°C (32° to 104°F)
Storage Temperature	-20 to +70°C (-4° to 158°F)
Humidity	10 to 90% (non-condensing)



6.3 Electrical Specifications

Parameter	PD-9612G/ACDC/M, PD-9606G/ACDC/M & PD-RPS-1000
AC Input Voltage	100 to 240VAC at 50/60Hz
Input Current @ 100VAC Input Current @ 240VAC	12A max 6A max
Nominal Output Voltage	50 to 57VDC
Total Output Power	950W max
Maximum Output Power per Port	PD-96XX series 95W

Parameter	PD-9612G/ACDC/M, PD-9606G/ACDC/M & PD-RPS-1000
DC Input Rated Voltage	53-57 VDC 
Input DC Maximum Current	20A



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7 Microsemi's PowerView Pro

Microsemi's PowerView Pro is a secure remote management system offering real time monitoring and control, with graphical representation, status indicators, and alarms. PowerView Pro manages Midspans via an Internet browser interface or via a Network Management System (NMS). Some of the most important features is remote power enable/disable functionality on each Midspan port, supporting "hard resets" of remote terminals such as WLAN Access Points and VoIP Phones PowerView Pro, and enabling to monitor and control at network and Element levels, as shown in Figure 7-1. For further details, refer to Microsemi's PowerView Web Manager user guide.

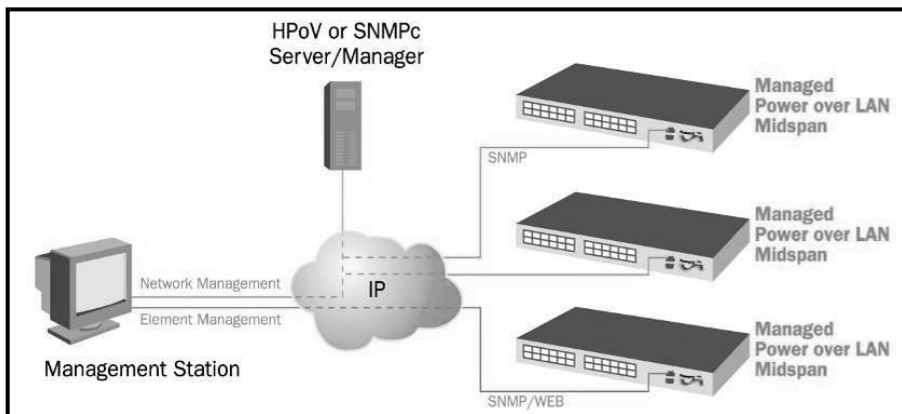


Figure 7-1: Management Deployment

PowerView Pro provides a number of unique features for Midspan management:

- Remote Web Management of PoE for monitoring and configuration
- Configuration using graphical representations of remote devices
- Real time monitoring and configuration with visual status indicators and alarms



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- Multi-manager capabilities
- Event and performance data recording
- Runs on a PC platform with Windows graphic user interface (GUI)



8 Power Backup and Power Redundancy Connection

96xxG has two options for ensuring continuous power supply:

- Power Redundancy
- Power Backup

8.1 Power Redundancy

Microsemi's power redundancy mode is available in 96xxG Midspan series. This mode enables internal power supply backup for two Midspans connected to each other. This mode provides seamless failover between two Midspans. If one of the two Midspans' internal power supplies fails, failure is detected automatically and working power supply provides power to Midspan. Both Midspans are ensured continuous uptime and all active ports continue to operate without any effect on connected powered devices.

Power redundancy mode is available in the following midspans:

- PD-9612G/ACDC/M
- PD-9606G/ACDC/M

Note: When using power redundancy option, connect together only units that share the same power supply:

- 1Kw power supply units
 - PD-9612G/ACDC/M
 - PD-9606G/ACDC/M

WARNING:

When connecting power redundancy connectors, make sure AC power in **both** Midspans is disconnected from AC mains!

8.2 Power Backup

In case one of Midspans' power supplies fails, unit maintains full functionality by using an optional backup power supply.



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Midspan Unit	Redundant Power Supply
PD-9612G/ACDC/M PD-9606G/ACDC/M	PD-RPS-1000

8.3 Connectors

Power backup and power redundancy connectors are located on the back side of the Midspan.

PD-96xxG power backup and power redundancy have two connectors (see Figure 8-1):

- Power Backup and Power Redundancy Control Signal connector, RPS COM D-Sub: 15 pins, 3 rows female connector.
- DC Voltage Terminal Block Connector has two positive (+) terminals and two negative (-) terminals.

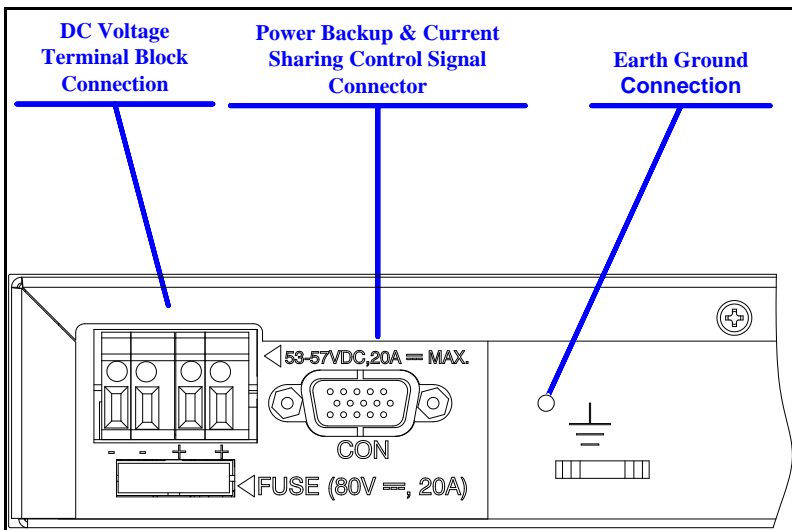


Figure 8-1: PD-96xxG Rear Panel Connectors



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8.4 Connecting Backup and Redundancy Connectors

WARNING:

Before connecting one Midspan to another, disconnect both Midspans from AC main.

Implement Power Backup and Power Redundancy modes by using PD-RPS-Cables Cable kit which includes DC Cable and RPS COM.

To connect the connectors:

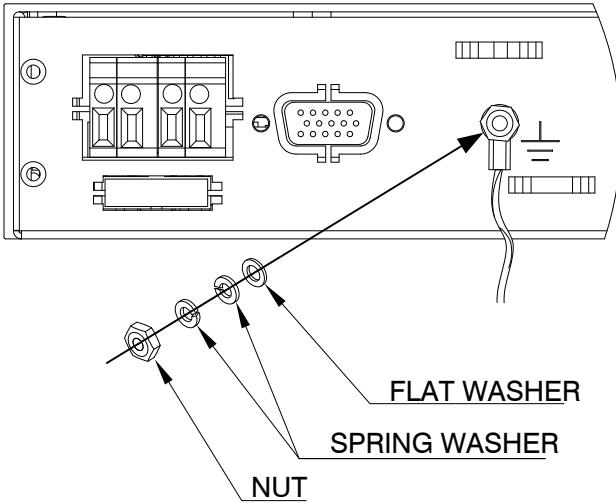
1. Verify Midspans are mounted securely on rack.
2. Verify Midspans are not connected to AC mains.
3. Connect DC cable; two red wires (+), two black wires(-), and one yellow/green wire, as shown in Figure 8-2.
4. Connect RPS COM cable.
5. Connect Midspans to AC outlet.
6. Verify Power Indicator LED is ON (Green LED).

Note:

When connecting a midspan to midspan or to an RPS unit - Connect the earth ground cable between both units Earth Ground connection.



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Note:

If Power Indicator LED is not lit, refer to Troubleshooting on page 19.

Note:

RPS functionality can be monitored via NMS as described in Section 8.3.

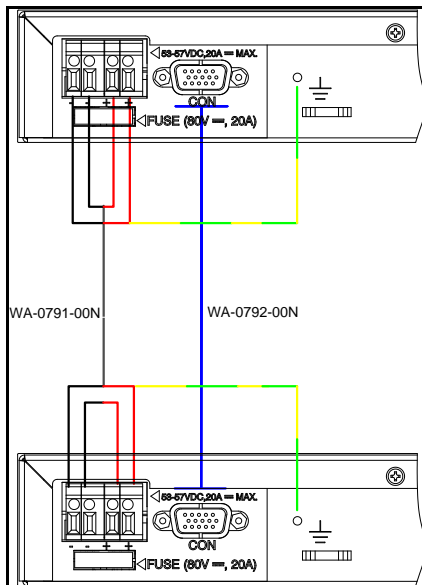


Figure 8-2: PD-96xxG Rear Panel connections

8.5 Power Backup and Power Redundancy Indications

For information on NMS configuration refer to PowerView Pro user guide, catalog number 056-0051-06. During Power Backup and Power Redundancy, NMS View-Status window displays 'Power Source Status' field. 'Power Source Status' field shows both internal and external power supply statuses (green indication for 'OK' and red indication for 'Fail').



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View - Status
Midspan Nickname: Midspan PoE Device

#	1	2	3	4	5	6	7	8	9	10	11	12
Power (W)	0	0	0	0	0	0	0	0	0	0	0	0
Description												

Midspan Status

Total Power Consumption (Watt)	0
Maximum available Power (Watt)	950
System Voltage (Volt)	55.5
Temperature (F)	76.1
Midspan Status	Active

Power Source Status

Internal (50W) Power Source	OK
External (950W) Redundancy Power Source	Ok

Figure 8-3: PD-90xxG View status in NMS

Note:

Midspan provides another power fail indication via Midspan's Power Indicator LED; whenever unit's internal power supply fails, Power Indicator LED blinks once every second (Green LED).

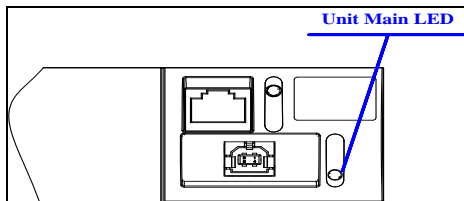


Figure 8-4: PD-96xxG Front Panel LED Indication



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<http://www.microsemi.com/company/terms-and-conditions>

Revision History

Revision Level / Date	Para. Affected	Description
B00/ 23-Jul-14		Replace PowerDsine by Microsemi
B01/ 25-May-16		Change Microsemi's web site, address

Visit our web site at

www.microsemi.com/products/poe-systems/poe-systems

For technical support, call: +972-9-775-5123

In the USA: 1-877-480-2323

Email: PoEsupport@microsemi.com

Catalog Number: PD-96xx_UG

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