



Safety Information (cont.)



WARNING

Read the installation instructions before connecting the Power over LAN Hub to its power source.



WARNING

Follow basic electricity safety measures whenever connecting the Power over LAN Hub to its power source.



WARNING

This product relies on the building installation for short-circuit (over current) protection. Ensure that a fuse or circuit breaker no larger than 120 VAC, 3A, U.S. (240 VAC, 1.5A international) is used on the phase conductor.



WARNING

A voltage mismatch can cause equipment damage and may pose a fire hazard. If the voltage indicated on the label is different from the power outlet voltage, do not connect the Power over LAN Hub to this power outlet.



WARNING

The Power over LAN Hub "Data In" and "Data & Power Out" ports are shielded RJ-45 data sockets. They cannot be used as Plain Old Telephone Service (POTS) telephone sockets. Only RJ-45 data connectors may be connected to these sockets.

1-Port Power over LAN Hub

User Guide

Notice

It is PowerDsine's policy to improve its products as new technology, components, software, and firmware become available. PowerDsine, therefore, reserves the right to change specifications without prior notice.

Trademarks

The product described in this guide is a licensed product of PowerDsine.

Power over LAN™ is a trademark of PowerDsine Ltd.

Technical Support

If you encounter problems when installing or using this product, please consult the PowerDsine website at: <http://www.powerdsine.com>

If these resources don't provide the help you need, please contact your local authorized PowerDsine reseller for additional technical support.

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Functions and Features

The device is design to meet the IEEE802.3af standard

The Power over LAN Hub adds 48VDC to the unused (non-data) wires in standard Category 5 Ethernet cable. As a result, the Power over LAN Hub delivers both data and power to the terminal.

EMC Compliance: Category 5 foiled twisted-pair cables must be used to ensure compliance with requirements of FCC Part 15, subpart B, Class B. The use of unshielded cables (Category 5 for 10BASE-T ports or for 100BASE-Tx ports) complies with Class A requirements.

Installation

The Power over LAN Hub may be free standing or wall mounted using the back wall holders.

NOTE:

Before you mount the Power over LAN Hub to a fixed location:

- Ensure not to cover the Power over LAN Hub or block the airflow to the Power over LAN Hub with any other objects. Keep the Power over LAN Hub away from excessive heat and humidity, and free from vibration and dust.
- Ensure that the cable length from the Ethernet network source to the terminal does not exceed 100 meters (333 Feet). The Power over LAN Hub is not a repeater and does not amplify the Ethernet data signal

Installing the Unit

- Connect the Power over LAN Hub to an AC outlet (100-240 VAC), using a standard power cord.
- Connect the unit **Data In** jack (input) to the Ethernet network and the **Data & Power Out** jack (output) to the terminal.

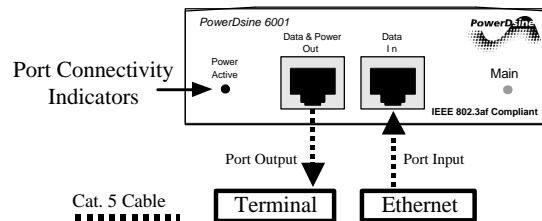


Figure 1: Illustration of connectivity for the Power over LAN Hub.

NOTE:

There is no “on-off” switch. Simply plug the Power over LAN Hub into an AC power source.

Indicators

Main Led - steady green indicates that the power is on.

Active Led - steady green indicates that the terminal is connected. (Power is active)

Specifications

Environmental Specifications

Mode	Temperature	Humidity
Operating	0 to 50 °C 32 to 122°F	10 to 90% (no condensation allowed)
Storage	-20 to 70 °C -4 to 158°F	10 to 90% (no condensation allowed)

Electrical Specifications

Input Voltage	90 to 264 VAC (47-63 Hz)
Input Current at 110 VAC Input Current at 220 VAC	0.34 ampere (max) 0.17 ampere (max)
Minimum Available Output Power	15.4 Watts
Nominal Output Voltage	45 to 56 VDC

Ethernet Interface

Input (Data In): Ethernet 10/100Base-T	RJ 45 female socket
Output (Data & Power Out): Ethernet 10/100Base-T, plus 48 VDC	RJ 45 female socket, with DC voltage on wire pairs 7-8 and 4-5.

Troubleshooting

- Ensure AC power is applied to the Power over LAN Hub, using an operational AC cable with an appropriate ground connection.
- Ensure the use of a standard 4 pair (8 wires) UTP or FTP CAT5 cable.
- Ensure a “crossover” type Ethernet cable is not used.
- Ensure input Ethernet cable is connected to the **Data In** port.
- Ensure output Ethernet cable is connected to the **Data & Power Out** port.
- Verify that the Ethernet cable length is less than 100 meters from the Ethernet source to the load.
- Verify that power ready Ethernet compatible device is connected.
- Verify that you are not using any cross over cable between the Power over LAN Hub output port and the load device.
- Verify that there is no short over any of the twisted pair cables or over the RJ45 connectors.

Safety Information

Important Safety Information

- Installation and removal of the Power over LAN Hub must be carried out by qualified personnel only.
- AC Power Cord Set:
 - ❑ The power cord must have regulatory agency approval for the specific country in which it is used (i.e., UL, CSA, VDE, etc.).
 - ❑ The power cord must be a three-conductor type (two current carrying conductors; one ground conductor) terminated on one end by an IEC 60320 appliance coupler (for connection to the Power over LAN Hub), and on the other end by a plug containing a ground (earthing) contact.
 - ❑ The power cord must be rated for a minimum of 250Vac RMS operation, with a minimum rated current capacity of 5 amps (or a minimum wire gauge of 18 AWG (0.75mm²)). Note: Power over LAN Hub units installed in Australia require power cords with a minimum wire gauge of 16 AWG (1.0 mm²).
- The AC wall socket-outlet must be near the Power over LAN Hub and easily accessible. You can remove AC power from the Power over LAN Hub by disconnecting the AC power cord from either the wall socket-outlet or the Power over LAN Hub appliance coupler.
- The Power over LAN Hub data and data / power interfaces are qualified as SELV (Safety Extra-Low Voltage) circuits according to IEC 60950. These interfaces can only be connected to SELV interfaces on other equipment.