

Power over LAN™

Features

- **Remote Power Feeding** – The 1, 6 and 12 port Power over LAN Midspans powers network video products up to 328 feet/100 m away by utilising existing Ethernet or fast Ethernet (category 5 unshielded or shielded twisted-pair cabling) for power transfer.
- **Active Splitter** – The Active Splitter is installed where a device is not compatible with the Power over LAN Midspans. This splitter separates the DC voltage and the Ethernet data, into two separate outputs terminating at a power port and a RJ-45 jack.
- **Scalable Solution** – Multiple Midspans can be mounted in a wiring cabinet to support additional terminals, resulting in a simple, cost effective method for expanding the network, as requirements evolve.
- **Centralized Power Distribution** – Deploying Power over LAN in conjunction with a central UPS provides a cost-effective way to distribute back-up power and ensures uninterrupted operation of Network Surveillance Cameras during electrical power failures.
- **Smart Ethernet Wiring** – The 1, 6 and 12 port Power over LAN Midspans directly transfer data transmissions originating from Ethernet terminals over pairs 1/2 and 3/6. The Power over LAN Midspans act as a normal patch panel for Ethernet connections, ensuring continuous and reliable performance. Power is provided only over unused Ethernet pairs 4/5 and 7/8.
- **Standard Compliance** – The 1, 6 and 12 port Power over LAN Midspans are fully compatible with IEEE 802.3 standard (when no inline power is supplied) and with IEEE 802.3af, DTE Power via Media Dependent Interface (MDI).
- **Advanced Auto-Sensing Algorithm** – The 1, 6 and 12 port Power over LAN Midspans feature a standard IEEE 802.3af auto-sensing algorithm, as well as backward compatibility to the pre-standard algorithm. This mechanism automatically detects power-ready terminals and supplies inline power. The per-port, sophisticated power control and monitoring circuit ensures continuous proper operation of devices, such as ordinary Network Interface Cards (NICs) that do not expect power on their Ethernet connection.
- **Easy to Use** – The 1, 6 and 12 port Power over LAN Midspans are plug-and-play products. Once turned on, they automatically detect all Power over LAN Ethernet terminals and supply inline power. All port interfaces are located on the front panel for easy access.
- **Compact Size** – The 6 and 12 port Power over LAN Midspans are standard 19-inch, 1U high to allow for easy rack mounting, while occupying minimal space in the wiring closet. The 1 port Power over LAN Midspan is only available as a wall or shelf mounted unit.
- **Concise LED Displays** – Real-time network monitoring through the front panel, includes a bi-color LED, per port, indicating normal, overload or short-circuit conditions. Additional LED indicators are included for main power supply and internal self-test monitoring.

Specifications 6 and 12 port Power over LAN Midspan

No of ports

12/6

Data Rates

10/100 Mbps

Power over LAN Output Specification

Pin Assignment and Polarity:

4/5 (RTN.), 7/8 (-V)

Output Power Voltage:

-48 V

User Port Power:

15.4W minimum

Aggregate Power:

12-port: 200W

6-port: 100W

Input Power Requirements

AC Input Voltage: 88 to 264 Vac

AC Frequency: 47 to 63 Hz

AC Input Current:

3.5 A at 110 Vac, 1.8 A

at 240 Vac

DC Input Current:

10 A at 48 V

Volt Amperes Rating:

0.48 KVA (-48 V)

0.30 KVA (110 Vac)

Dimensions

1.75 x 17.0 x 11.9 in. (h*w*d)

4.4 x 43.3 x 30.2 cm (h*w*d)

Weight

8.8 lbs. (4 kg)

Management

Local LED Display

Indicators

System Indicator:

AC Power (Green/Orange)

DC Power (Green/Orange)

User Indicator:

Channel Power (Green/Orange)

Connectors

Shielded RJ-45, EIA 568A and 568B,

DB-9, Female (Management)

Thermal Rating:

285 BTU

Environmental Conditions

Operating Ambient Temperature:

32° to 104°F (0° to 40°C)

Operating Humidity:

Maximum 90%, Non-condensing

Storage Temperature:

-4° to 167°F (-20° to 75°C)

Storage Humidity:

Maximum 95%, Non-condensing

Operating Altitude:

-1,000 to 10,000 ft. (-304.8 to 3048 m)

Regulatory Compliance

CE Compliance

Electromagnetic Emission and Immunity

FCC Part 15 Class B

EN55022 Class B (Emission)

EN50082-1 (Immunity)

Safety Approval

UL 1950

CSA C22.2 No. 950

EN 60950

TUV EN 60950

Specifications 1 port Power over LAN Midspan

No of ports

1

Data Rates

10/100 Mbps

Power over LAN Output Specification

Pin Assignment and Polarity:

4/5 (RTN.), 7/8 (-V)

Output Power Voltage:

-48 V

User Port Power:

15.4W minimum

Input Power Requirements

AC Input Voltage: 90 to 264 Vac

AC Frequency: 47 to 63 Hz

AC Input Current:

0.3 A at 110 Vac, 0.15 A

at 240 Vac

Dimensions

1.75 x 4.17 x 5.5 in. (h*w*d)

4.4 x 11 x 14 cm (h*w*d)

Weight

1 lbs. (0.45 kg)

Indicators

System Indicator:

AC Power (Green/Orange)

User Indicator:

Channel Power (Green/Orange)

Connectors

Shielded RJ-45, EIA 568A and 568B

Thermal Rating:

127.5 BTU

Environmental Conditions

Operating Ambient Temperature:

32° to 104°F (0° to 40°C)

Operating Humidity:

Maximum 90%, Non-condensing

Storage Temperature:

-4° to 167°F (-20° to 75°C)

Storage Humidity:

Maximum 95%, Non-condensing

Operating Altitude:

-1,000 to 10,000 ft. (-304.8 to 3048 m)

Regulatory Compliance

CE Compliance

Electromagnetic Emission and Immunity

FCC Part 15 Class B

EN55022 Class B (Emission)

EN50082-1 (Immunity)

Safety Approval

UL 1950

CSA C22.2 No. 950

EN 60950

GS EN 60950

Specifications Power over LAN Active Splitter

Input voltage

48V Nominal

Output voltage/Max output current

+12V / 0.9 A

Dimensions

(H) 1.26 in. x (W) 5 in. x (D) 3 in.

(H) 3.2 cm x (W) 12.7 cm x (D) 7.62 cm

Weight

175 gr.

Connectors

Shielded RJ-45, EIA 568A and EIA 568B Circular connector type HRS RP34

Environmental Conditions

Operating Temperature:

32° to 104°F (0° to 40°C)

Operating Humidity:

Maximum 90%, Non-condensing

Storage Temperature:

-13° to 185°F (-25° to 85°C)

Storage Humidity:

Maximum 95%

Operating Altitude:

-1000 to 10,000 ft. (-304.8 to 3048 m)

Product Safety

US

AUL 1950

Canada

CSA C22.2 No. 950

Europe

73/23/LVD, CE Mark

Europe

EN60950, TUV EN60950

International

IEC 950, CB Certified

Electromagnetic Compatibility (EMC)

US

FCC Part 15, Class B

Canada

CSA C22.2 , Class B

Europe

89/336/EEC, EMC Directive, including CE Mark

Europe

EN55022, Class B (Emissions)

EN50082-1, (Immunity)

International

CISPR 22, Class B