

PLC + PoE

G.hn | Wall-Plug with MIMO | 802.3af PoE Bridge

PG-9172PoE

Powerline Ethernet +PoE Adapter



The PowerGrid 9172PoE, with ITU-T G.hn and IEEE 802.3af PoE standard, provides up to 15 W power output and better quality data transmission for high-speed networking to easily turn on a PoE-enabled device such as an IP Surveillance camera. It allows users to extend a local area network via existing power lines, eliminating the need for extra wiring, with no additional power supply required for Powered Device (PD). Installation at home (or in a small office) is quick and easy as the PowerGrid 9172PoE comes with plug-and-play technology.

The PowerGrid 9172PoE supports Multiple Input/Multiple Output (MIMO) operation based on G.9963. It can be used with two fully programmable reception and transmission paths to attain the best data throughput. The PowerGrid 9172PoE comes pre-programmed allowing easy installation / configuration and it features secure end-to-end encryption algorithms for safeguarding the network integrity.

FEATURES

- **MIMO Performance**

Supports ITU-T G.9963 G.hn baseband plans MIMO 50MHz techniques for powerline throughput up to 800 Mbps PHY rate with Robust Communication Mode (RCM) to prevent noise interference from other home appliances.

- **High Speed Data Transmission**

High speed (up to **1 Gbps** Phy Rate) dramatically increases the performance of next-generation home entertainment applications such as multiple high definition (HD) TV over IP (IPTV), 3DTV streaming and VoIP, digital video recorder (DVR) networking and media center servers.

- **Built-in IEEE 802.3af power supply: No Extra Wires Needed**

Local area network and PSE powering can be extended and eliminated via the power line network and an Ethernet cable.

- **Simply One-Button-Pairing, Plug & Play**

Quick and easy connections with embedded plug-and-play, no extra configuration required!

- **Extends Connecting Range & Eliminates Dead Spots**

Power line technology is capable of actually covering more than 95% of a typical household area and also provides the convenience for mobile coverage.

- **More Outlets than Other Wired Solutions**

On average, there are 45 power outlets and only 3-5 cable or phone outlets in a household, therefore making power lines a more convenient solution for extending networks.

- **Security**

With advanced data encryption capability, the power line networks are safer and more secure.

PowerGrid Series PG-9172PoE

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SPECIFICATIONS

Interface

- RJ-45 X 1 for Ethernet connection and for 44 – 57 VDC input power to PoE.802.3af
- AC power plug X 1

Ethernet

- Standard IEEE 802.3/ and IEEE 802.3af
- 10/100 Mbps BaseT auto-sense
- Auto rate and duplex negotiation
- MDI/MDX support

Modulations

- OFDM, FEC, Flexible frequency configuration

Data Rate

- Up to 800 Gbps Phy rate on PLC transmission

Management

- HTTP Web-based
- TR-069 Supported (Optional)

Security

- AES 128 bits encryption ensures total data security
- One Button Security Set-up
- Configuration button for factory reset

Networking Protocols

- 802.1D Ethernet Bridge
- 802.1Q VLAN
- Quality of Service (QoS)
- IGMP(IPv4) Snooping & MLD(IPv6) Snooping
- Built-in dual TCP/IP stack (IPv4/IPv6)

Power

- 110-240 VAC 50Hz/60Hz

Environment Condition

- Operating temperature: 0 ~ 40 degrees Celsius
- Relative humidity: 8 ~ 95% (non-condensing)

Dimensions

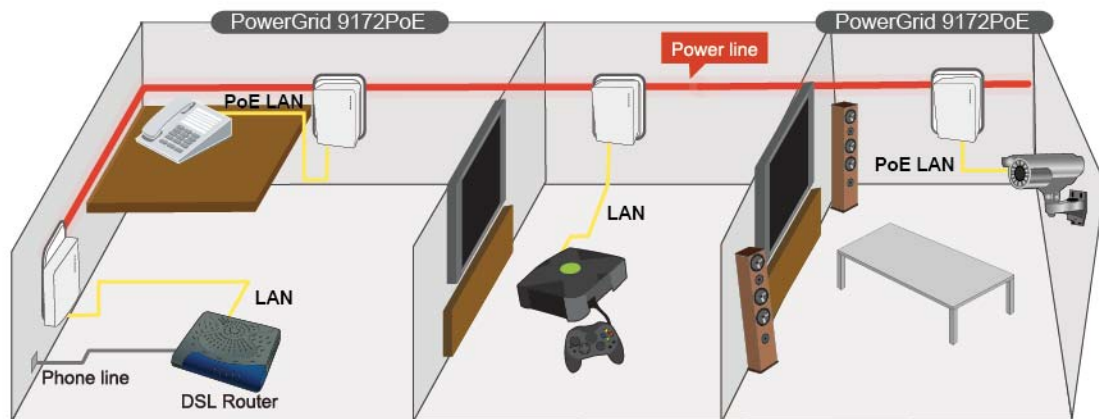
- EU/UK/French/NA/Israel/India version: 93mm(H) x 38 mm (W) x 59mm(D)

Certifications

- CE, FCC, ITU-T G.hn Standard

Note: Specifications are subject to change without notice

Applications Diagram



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