

PLC

1Gbps G.hn | Wall-Plug with MIMO

PG-9172

Powerline Ethernet Adapter



Comtrend PG-9172 is an ITU-T G.hn networking standard compliant Ethernet adapter which was awarded the first G.hn certification by HomeGrid Forum. PG-9172 provides the best quality data transmission for the truly high-speed 'connected home' experience. It allows users to extend a local area network via existing power lines, eliminating the need for extra wiring. Installation at home (or in a small office) is quick and easy as the PowerGrid 9172 comes with plug-and-play technology.

The PowerGrid 9172 supports Multiple Input/Multiple Output (MIMO) operation based on G.9963 and can be used with two fully programmable reception and transmission paths to attain up to 1Gbps PHY rates co-existence with UPA technology networks. The PowerGrid 9172 comes pre-configured allowing easy installation / configuration and it features secure end-to-end encryption algorithms for safeguarding the network integrity. It also supports advanced energy-saving features based on Ethernet link activity, with automatic standby mode.

FEATURES

• MIMO Performance

Support ITU-T G.hn baseband plans 25, 50 and 100 MHz with MIMO techniques for powerline (based on G.9963) boosting PLC throughput up to 800 Mbps PHY rate over powerline (1 Gbps PHY rate over coax), having Robust Communication Mode (RCM) to prevent noise interference from other home appliances.

• High Speed Data Transmission

High speed (up to **1 Gbps**) 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 PCs.

• No Extra Wires Needed

Local area network can be extended without the hassle of having to install extra wiring because the power line network is already a commonplace fixture in most households.

• Simple Pairing, Plug & Play

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

PowerGrid 9172 can be paired easily by simply connecting Ethernet cables to routers and devices.

• Extends Connecting Range & Eliminates Dead Spots

Unlike wireless, Power line technology is capable of actually covering more than 95% of a typical household area.

• 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-9172

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SPECIFICATIONS

Interface

- RJ-45 X 1 for Ethernet connection
- AC power plug X 1

Ethernet

- Standard IEEE 802.3
- 10/100/1000 Mbps BaseT auto-sense
- Auto rate and duplex negotiation
- MDI/MDX support

Modulations

- OFDM, FEC, Flexible frequency configuration

Data Rate

- Up to 1 Gbps

Management

- HTTP Web-based; Firmware upgrade via TFTP
- TR-069 Supported (Optional)

Security

- AES 128 bits encryption ensures total data security
- One Button Security Set-up
- Configuration button for factory reset and switch off/on LEDs functions

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
- Support low power mode EuP Directive (Auto standby mode)

Environment Condition

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

Dimensions

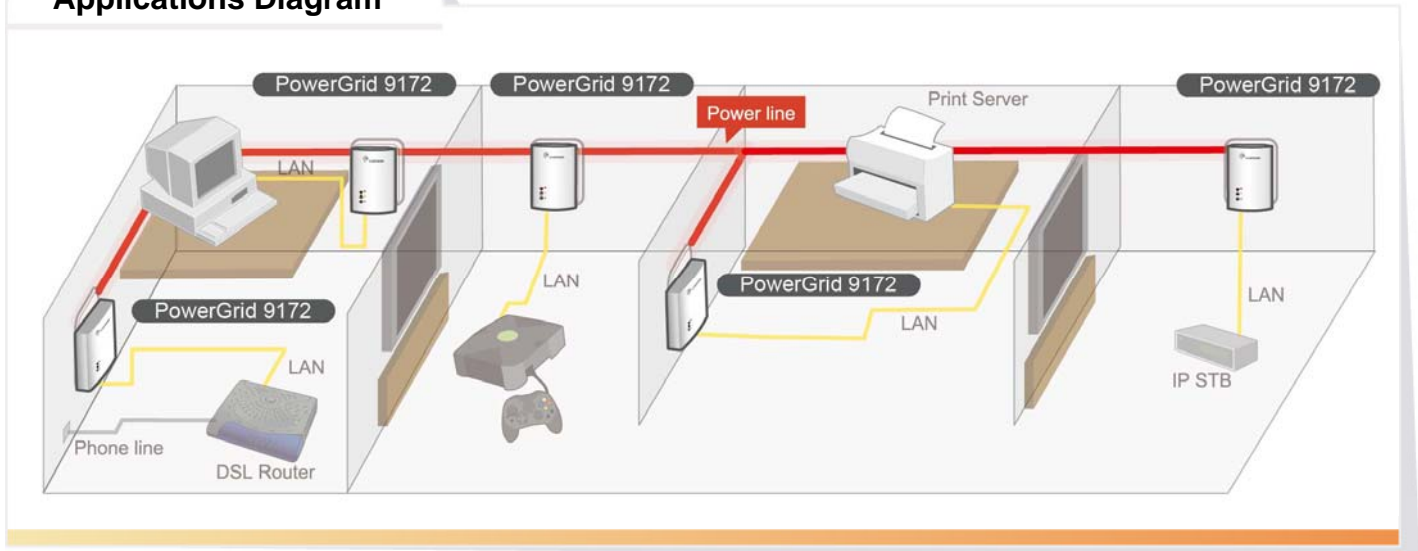
- EU/UK/French/NA/Israel/India version:
93mm(H)x 29.6 mm(W) x 59mm(D)

Certifications

- CE, FCC, ITU-T G.hn Standard
- HomeGrid Forum G.hn Logo

Note: Specifications are subject to change without notice

Applications Diagram



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