

PLC

1Gbps G.hn | Filtered Outlet

PG-9070

Powerline Ethernet Adapter



The PowerGrid 9070, ITU-T G.hn networking standard compliant Ethernet adapter, 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 9070 comes with plug-and-play technology.

The PowerGrid 9070 supports MIMO operation with an AC filter female power socket and can be used with two fully programmable reception and transmission paths to attain up to 1Gbps PHY rates/throughputs co-existence with UPA technology networks. The PowerGrid 9070 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 and 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 (max. **1 Gbps**) dramatically increases the performance of next-generation home entertainment applications such as multiple high definition (HD) TV over IP (IPTV), 3DTV 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 9070 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-9070

1 Gbps G.hn | Filtered Outlet

SPECIFICATIONS

Interface

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

Networking Protocols

- 802.1D Ethernet Bridge
- 802.1Q VLAN
- Quality of Service (QoS)
- IGMP(IPv4) Snooping & MLD(IPv6) Snooping

Power

- 110-240 VAC 50Hz/60Hz
- Auto power saving mode max 0.5W (in standby mode)

Environment Condition

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

Dimensions

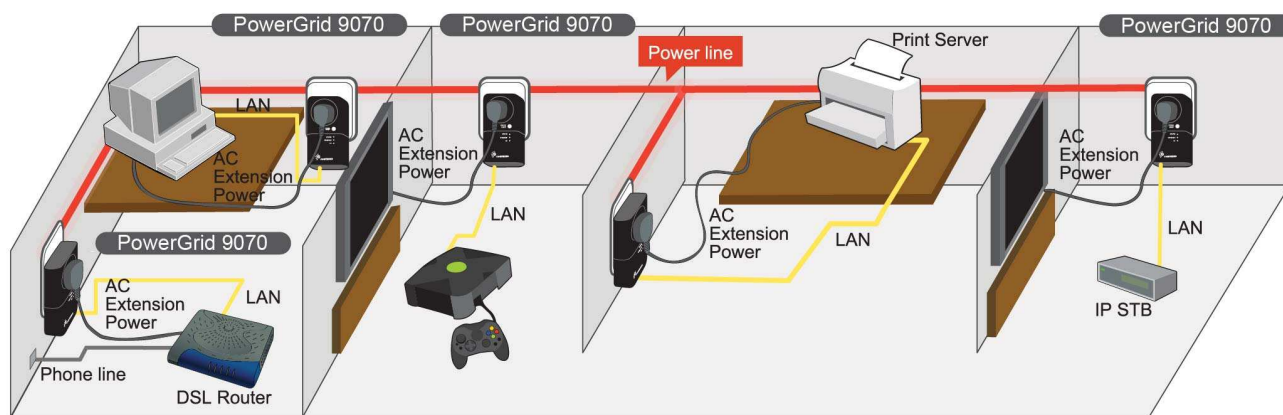
- EU/French version: 137mm(H)x 68 mm (W) x 61mm(81 mm with plug)(D)

Certifications

- FCC, CE class B, WEEE, RoHS, ITU-T G.hn Standard

Note: Specifications are subject to change without notice

Applications Diagram



COMTREND CORPORATION

Taiwan:

3F-1, No.10, Lane 609, Chongxin Road, Section 5,
Sanchong Dist, New Taipei City 24159, Taiwan
Tel: 886-2-2999-8261
Fax: 886-2-2999-8497

China:

1F, No. 88 Building M1 East QianJin Road,
Kunshan City, PC: 215300, China
Tel: 86-512-57383156,
Fax: 86-512-57383155

Spain:

Edif. América II C/Prócion,7 portal 3 bajo H 28023 Madrid,
Spain
Tel: 34-917990403
Fax: 34-913510999

France:

8, Rue Edouard Naud
92130 Issy-Les-Moulineaux, France
Tel: 33-1-78463600
Fax: 33-1-78463601

Czech Republic:

TOKOVO Jankovcova 1518/2, 170 00, Prague 7,
Czech Republic
Tel: 420-266-782040
Fax: 420-266-782990

USA & Canada:

16 Goodyear, Suite 120, Irvine, CA 92618
Tel: 1-949-7539640
Fax: 1-949-7539020

Brazil:

Av. Brig. Luis Antonio, 2466 Room 64 - Jardim Paulista -
São Paulo - SP - zip code: 01402-000
Tel: 00 55 11 3052-2295
Fax: 00 55 11 3052-2295