

# PLC

1Gbps G.hn | Filtered Outlet

## PG-9073

# Powerline Ethernet Adapter



The PowerGrid 9073, ITU-T G.hn networking standard compliant Ethernet adapter, provides the best quality data transmission for 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 9073 comes with plug-and-play technology.

The PowerGrid 9073 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 800 Mbps PHY rates over power line. The PowerGrid 9073 comes pre-configured easy installation / configuration and it features most secure end-to-end encryption algorithms for safeguarding the network integrity with advanced energy-saving features based on Ethernet link activity, automatic standby mode.

## FEATURES

### • MIMO Performance

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

### • High Speed Data Transmission

High speed (max. **800 Mbps**) 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 9073 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-9073

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## 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 800 M bps at Phy rate

### Management

- HTTP Web-based (optional)
- TR-069 over IPv4/v6 dual stack

### 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

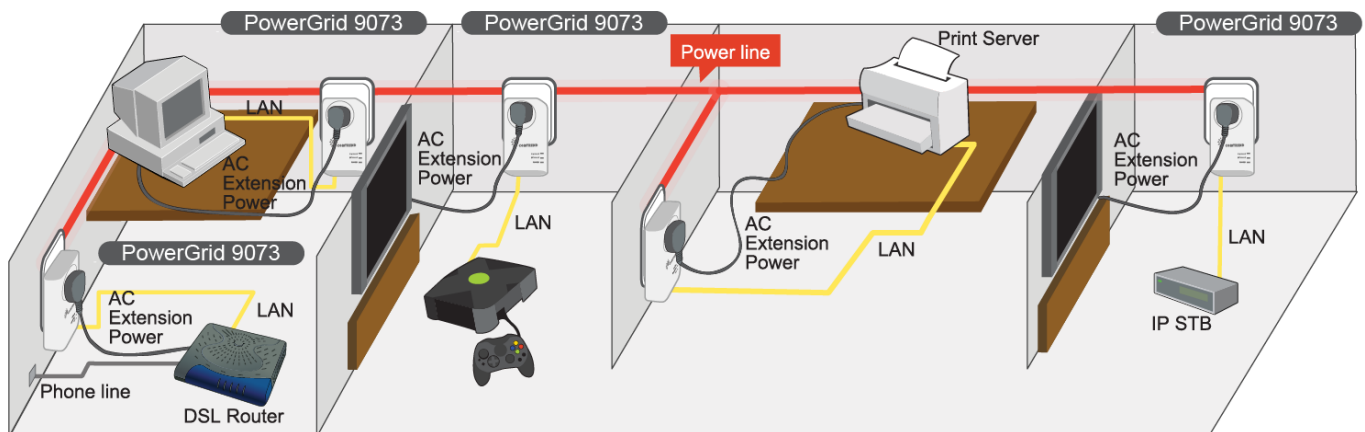
- EU/Type E & F: 123mm(H)x 55 mm (W) x 38mm(60 mm with plug)(D)

### Certifications

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

Note: Specifications are subject to change without notice

## Applications Diagram



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