

# PowerGrid Series

200M HPAV

## PG-9141/9141s

# Powerline Ethernet Adapter



The PowerGrid 9141(s), Home Plug AV broadband standard compliant Ethernet adapter, provides the best quality data transmission for high-speed networking. 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 9141(s) comes with plug-and-play technology.

The PowerGrid 9141s\*\*\* supports ClearPath technology and is designed without a power socket therefore it is small in size. It can be used with the neutral-ground pairs for preventing noise interference from other home appliances and for attaining the highest PHY rates/throughputs and better coverage over the other Home Plug AV products. The PowerGrid 9141(s) comes pre-configured for plug-and-play home networking and it features advanced encryption algorithms for safeguarding the network integrity thereby creating a safe and secure home network environment that delivers quick and convenient access to information and entertainment.

## FEATURES

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- **ClearPath Technology**

Supports ClearPath and can be used with neutral-ground pair for higher PHY rates/throughputs and better coverage over the other HPAV products. (HPAV technology utilizes the phase-neutral pair only)

- **High Speed Data Transmission**

High speed (up to 200Mbps) dramatically increases the performance of next-generation home entertainment applications such as multiple high definition (HD), 3DTV and standard definition (SD) video distribution, TV over IP (IPTV), 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 9141(s) 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.

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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 BaseT auto-sense
- Auto rate and duplex negotiation
- MDI/MDX support

### Modulations

- OFDM, FEC; Flexible frequency configuration

### Data Rate

- Up to 200Mbps

### Management

- HTTP Web-based management; Firmware upgrade via
- TFTPTR-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

- 100-240 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 (UK/French/NA) version 93mm(H)x 29.6 mm (W) x 59mm(with plug)(D)

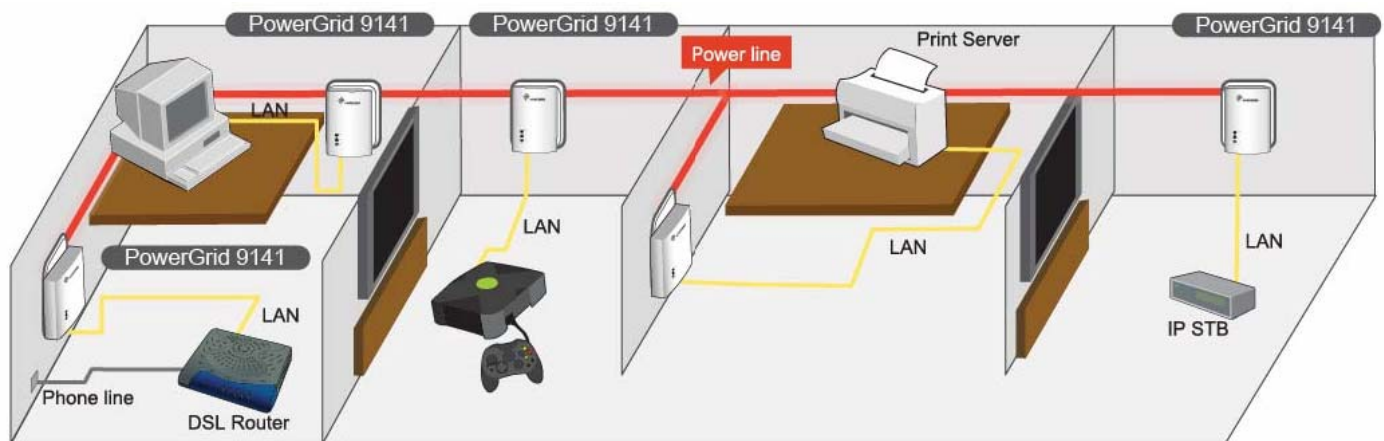
### Certifications

- FCC, CE class B, WEEE, RoHS, REACH

Note: Specifications are subject to change without notice

\*\*\*9141s(s = with ClearPath)

## Applications Diagram



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