

PowerGrid Series

200M HPAV + PoE

PG-9141PoE/9141sPoE

Power over Ethernet Adapter



The PowerGrid 9141(s)PoE, Home Plug AV (HPAV) broadband standard and fully IEEE 802.3af compliant Power over Ethernet (PoE) adapter, provides the up to 15 W DC power output and best quality data transmission for high-speed networking to easily turn on a PoE-enabled device such as IP Surveillance. It allows users to extend a local area network via existing power lines, eliminating the need for extra wiring no additional power supply required for Powered Device (PD). Installation at home (or in a small office) is quick and easy as the PowerGrid 9141(s)PoE comes with plug-and-play technology.

The PG-9141sPoE*** supports ClearPath technology to 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 HPAV products. The PG-9141(s)PoE could be paired up with Comtrend HPAV products such as PG-9141(s) and PG-9042(s) 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 home security and entertainment.

FEATURES

- **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.

- **Build-in power supply; No Extra Wires Needed**

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

- **Simple Pairing, Plug & Play**

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

PG-9141(s)PoE 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 and for 44 – 57 VDC input power to PoE
- AC power plug X 1

Ethernet

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

Modulations

- OFDM, FEC; Flexible frequency configuration

Data Rate

- Up to 200Mbps (operating @ HPAV baseband plans 2-28MHz)

Management

- Remote firmware upgrade
- 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

- 100-240 VAC 50Hz/60Hz
- Auto power saving mode max 0.5W (in standby mode)
- Per port feeding power up to 15 watts (use with IEEE 802.3af standard PoE enabled PD devices ex. VoIP phone, IP Cam...etc..)

Environment Condition

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

Dimensions

- NA version 108mm(H)x 68 mm (W) x 46m(D)

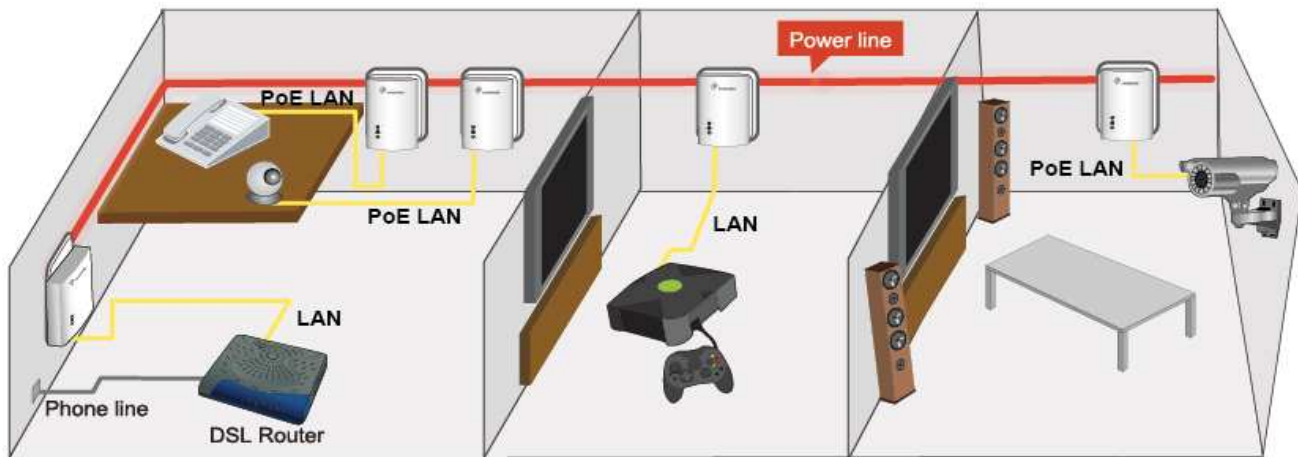
Certifications

- FCC

Note: Specifications are subject to change without notice

***9141sPoE("s" = with ClearPath)

Applications Diagram



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