# COMTREND

# PLC + PoE G.hn 1.2Gbps | 100MHz MIMO | 802.3af/at PoE PG-9181PoE Powerline Ethernet + PoE Adapter



The PowerGrid 91812PoE complyies with ITU-T G.hn and IEEE 802.3af/at PoE standards, and provides up to 30W power output over two Giga Ethernet ports easily turning on PoE-enabled devices such as two IP Surveillance cameras and Hot-spot AP. It allows users to extend a local area network via existing power lines, eliminating the need for extra wiring, with no additional power supply required for Powered Device (PD). Installation at home (or in a small office) is quick and easy as the PowerGrid 9172PoE comes with plug-and-play technology.

The PowerGrid 9181PoE supports the new generation of so-called G.hn wave2 tech, 100MHz MIMO operation and can be used with two fully programmable reception and transmission paths to attain up to 1.2Gps PHY over powerline. The PowerGrid 9181PoE comes pre-configured allowing 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 1.2Gbps PHY rate over powerline and having Robust Communication Mode (RCM) to prevent noise interference from other home appliances.

- High Speed Data Transmission
   High speed (around max 1000 Mbps) dramatically increases the performance of next-generation home entertainment applications such as multiple high definition (HD) TV over IP (IPTV), 3D TV and VoIP, digital video recorder (DVR) networking and media center PCs.
- No Extra Wires Needed

The 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!

• Extends Connecting Range & Eliminates Dead Spots

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

Security

With advanced data encryption capability, the power line networks are safer and more secure.

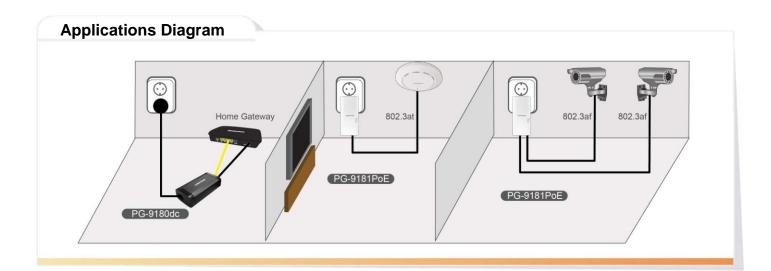
• 802.3af/at 30W power over Ethernet Flexible PoE configuration of 802.3af x 2 or 802.3at x1.

# PowerGrid Series PG-9181PoE

G.hn 1.2Gbps | 100MHz MIMO | 802.3af/at PoE

## **SPECIFICATIONS**

Interface <ul> <li>RJ-45 X 2, flexible PoE configuration of 802.3af x 2 or 802.3at x1</li> <li>AC power plug</li> <li>LED Indicators: G.hn, LANx2, PWR, Security. PoE x2</li> <li>Buttons: G.hn pairing, RESET</li> </ul>	Networking Protocols <ul> <li>802.1D Ethernet Bridge</li> <li>802.1Q VLAN</li> <li>Quality of Service (QoS)</li> <li>IGMP(IPv4) Snooping &amp; MLD(IPv6) Snooping</li> </ul>
Ethernet	AC Power • 100-240 VAC, 50Hz/60Hz
<ul> <li>Standard IEEE 802.3</li> <li>10/100/1000 Mbps BaseT auto-sense</li> <li>Auto rate and duplex negotiation</li> <li>MDI/MDX support</li> </ul>	<ul> <li>Environment Condition</li> <li>Operating temperature: 0 ~ 40 degrees Celsius</li> <li>Relative humidity: 8 ~ 95% (non-condensing)</li> </ul>
G.hn	Dimensions
<ul> <li>MaxLinear 88LX5152 + 88LX2720</li> <li>ITU-T G.9960 &amp; G.9961 compliant</li> </ul>	• 146mm (H) x 72 mm (W) x 39 mm (D, without plug)
· G.hn 100MHz MIMO	Certifications
Up to 1200 M bps at Phy rate	• FCC, cUL, CE, ITU-T G.hn Standard, HomeGrid logo
NDIM support	<ul> <li>Note: Specifications are subject to change without notice.</li> </ul>
Modulations OFDM, FEC; Flexible frequency configuration	A
Management	WARNING
HTTP Web-based (optional)     TR-069 over IPv4/v6 dual stack (Optional)	<ul> <li>Disconnect the PLC from the power source before servicing</li> <li>For indoor user only</li> <li>Do NOT open the casing</li> <li>Do NOT use near water</li> </ul>
Security	
AES 128 bits encryption ensures total data security	



## COMTREND

#### 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 USA & Canada: 530 Technology Dr. Suite 100 Irvine, CA 92618, USA Tel: 1-949-753-9640 Fax: 1-949-753-9020

#### Spain:

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

#### Czech Republic:

Do NOT insert sharp objects into the adapter's socket

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