

PLC + Ether Switch

G.hn 1.2Gbps | 100MHz MIMO | GE x 4

PG-9183

Powerline Giga Ethernet Switch



The PowerGrid 9183 is a powerline Switch with 4 integrated Ethernet Giga ports that complies with ITU-T G.hn standards. 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 without the need for an external Giga Ethernet Switch.

The PowerGrid 9183 supports a 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 1.2Gbps PHY over powerline. The PowerGrid 9183 comes pre-configured allowing easy installation / configuration, featuring the most secure end-to-end encryption algorithms for safeguarding the network integrity, and advanced energy-saving features based on Ethernet link activity; automatic standby mode.

FEATURES

• MIMO Performance

Supports 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 has 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! PowerGrid 9183 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.

• Security

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

• 4-port Giga Ethernet

Save on installation space with this integrated 4-port Giga Ethernet switch.

PowerGrid Series PG-9183

G.hn | Data 1Gbps | 100MHz MIMO | GE x 4

SPECIFICATIONS

Interface

- RJ-45 X 4,
- AC power plug
- LED Indicators: G.hn, PWR, Security, Ethernet x 8 (LEDx2/ETH connector)
- Buttons: G.hn pairing, RESET

Ethernet

- Standard IEEE 802.3
- 10/100/1000 Mbps BaseT auto-sense
- Auto rate and duplex negotiation
- MDI/MDX support

G.hn

- MaxLinear 88LX5152 + 88LX2720
- ITU-T G.9960 & G.9961 compliant
- G.hn 100MHz MIMO
- Up to 1200 M bps at Phy rate
- NDIM support

Modulations

- OFDM, FEC; Flexible frequency configuration

Management

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

AC Power

- 100-240 VAC, 50Hz/60Hz

Environment Condition

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

Dimensions

- 146mm (H) x 72 mm (W) x 39 mm (D, without plug)

Certifications

- FCC, cUL, CE, ITU-T G.hn Standard

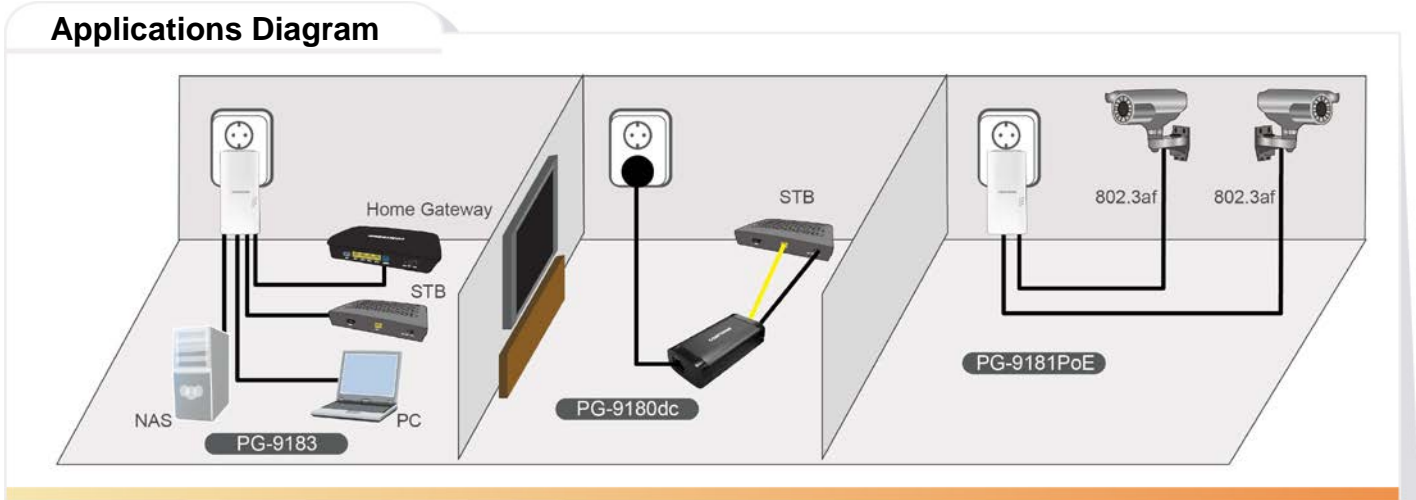
Note: Specifications are subject to change without notice.



WARNING

Disconnect the PLC from the power source before servicing
For indoor user only
Do NOT open the casing
Do NOT use near water

Applications Diagram



COMTREND

Taiwan:

3F-1, No.10, Lane 609, Chongxin Road, Section 5,
Sanzhong 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:

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