G.hn Wave2 Powerline Ethernet Switch

G.hn Powerline Adapter

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

PG-9183

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 1.2Gps 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.

KEY FEATURES

- **MIMO Performance:** ITU-T G.hn baseband uses 100 MHz MIMO techniques to boost PLC throughput up to 1.2Gbps PHY rate over powerline.
- **High Speed Data Transmission:** High speed (around max 1000 Mbps) dramatically increases the performance of next-generation home entertainment applications.
- **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.
- **4-port Giga Ethernet:** Save on installation space with this integrated 4-port Giga Ethernet switch.

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SPECIFICATIONS

Interfaces	▪ 4x Gigabit Ethernet LAN ▪ 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	▪ ITU-T G.9960 & G.9961 compliant ▪ G.hn 100MHz MIMO ▪ Up to 1200 Mbps 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
Dimensions	▪ 146mm (H) x 72 mm (W) x 39 mm (D, without plug)
Certifications	▪ FCC, cUL, CE, ITU-T G.hn Standard, HomeGrid logo

ENVIRONMENT

Operating Temperature	0 ~ 40 degrees Celsius
Relative Humidity	8 ~ 95% (non-condensing)

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

Certificated Standards
EN 55032 / EN 55035   Part15B-ICES003
EN 50561-1 / EN 50561-3 / EN 50412-2-1   Part15.113 / ICES006
EN 62368-1 (Includes ErP)   UL 62368-1(includes cUL)

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COMTREND