COMTREND

G.hn Wave2 Powerline
Powerline Ethernet Adapter
G.hn 1.2Gbps **|** 100MHz MIMO **|** 1x GE LAN **|** Filtered Outlet

PG-9088

The **PowerGrid 9088**, ITU-T G.hn networking standard compliant ethernet adapter provides the best quality data transmission for the truly high-speed 'connected home' experience. 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 9088 comes with plug-and-play technology.

The PowerGrid 9088 supports the new generation of so-called G.hn wave2 tech, 100MHz MIMO operation with an AC female power socket and can be used with two fully programmable reception and transmission paths to attain up to 1.2Gbps PHY over powerline. The PowerGrid 9088 comes pre-configured for easy installation / configuration, and it features the 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.

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.
- **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	
Interfaces	1x Gigabit Ethernet LAN 1x AC power plug 1x AC power socket - LED Indicators: G.hn, LAN, PWR, Security - 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
Power	- Input : 100-240Vac, 50/60Hz, 16A - Output : 100-240Vac, 50/60Hz, 16A
Dimensions	140mm(H) x 70 mm(W) x 36.5mm (without plug)(D)
Certifications	FCC, CE, ITU-T G.hn Standard

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 use Indoor Extension Cord
Do NOT open the casing
Do NOT use near water
Do NOT insert sharp objects into the adapter's socket
Socket maximum output is 16A

CE Standards
EN 55032 / EN 55035
EN 50561-1 / EN 50561-3 / EN 50412-2-1
EN 62368-1 (Includes ErP)

COMTREND

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Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.