

# 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	
<b>Interfaces</b>	<ul style="list-style-type: none"><li>1x Gigabit Ethernet LAN</li><li>1x AC power plug</li><li>1x AC power socket</li><li>LED Indicators: G.hn, LAN, PWR, Security</li><li>Buttons: G.hn pairing, Reset</li></ul>
<b>Ethernet</b>	<ul style="list-style-type: none"><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>
<b>G.hn</b>	<ul style="list-style-type: none"><li>ITU-T G.9960 &amp; G.9961 compliant</li><li>G.hn 100MHz MIMO</li><li>Up to 1200 Mbps at Phy rate</li><li>NDIM support</li></ul>
<b>Modulations</b>	<ul style="list-style-type: none"><li>OFDM, FEC, Flexible frequency configuration</li></ul>
<b>Management</b>	<ul style="list-style-type: none"><li>HTTP Web-based (optional)</li><li>TR-069 over IPv4/v6 dual stack (Optional)</li></ul>
<b>Security</b>	<ul style="list-style-type: none"><li>AES 128 bits encryption ensures total data security</li></ul>
<b>Networking Protocols</b>	<ul style="list-style-type: none"><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>
<b>Power</b>	<ul style="list-style-type: none"><li>Input : 100-240Vac, 50/60Hz, 16A</li><li>Output : 100-240Vac, 50/60Hz, 16A</li></ul>
<b>Dimensions</b>	<ul style="list-style-type: none"><li>140mm(H) x 70 mm(W) x 36.5mm (without plug)(D)</li></ul>
<b>Certifications</b>	<ul style="list-style-type: none"><li>FCC, CE, ITU-T G.hn Standard</li></ul>
ENVIRONMENT	
<b>Operating Temperature</b>	0 ~ 40 degrees Celsius
<b>Relative Humidity</b>	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 )



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