

# G.hn Wave2 Powerline IoT AC1200

G.hn | 100MHz MIMO | ON/OFF Switch | APP IoT  
802.11ac | Concurrent DB 2T2R

## PG-9086



The **PowerGrid 9086**, ITU-T G.hn networking standard compliant ethernet adapter, is designed to meet the growing demand for perfect connectivity and coverage across multiple devices connected concurrently throughout the home. The G.hn Powerline Wi-Fi Extender wall plug allows users to take Wi-Fi anywhere throughout the home for simultaneous Internet/video streaming and IoT device use.

The PowerGrid 9086 supports an on/off switch of the AC socket using a button or APP. Also, combining the concurrent dual band Wi-Fi radios, driving the G.hn Powerline Wi-Fi Extenders enable them to leverage both the 2.4GHz and 5GHz bands to deliver a seamless wireless experience anywhere in the home. Smart Wi-Fi technology Airtime fairness/QoS will also enable the virtualization of Wi-Fi resources, so that Wi-Fi capacity can be dynamically apportioned and provisioned to different devices, services and Smart IoT applications.

### KEY FEATURES

- **G.hn MIMO Performance:** ITU-T G.hn baseband plans 100 MHz MIMO techniques boosting PLC throughput up to 1.2Gbps PHY rate over powerline.
- **Concurrent Dual Band WiFi5 11ac:** Utilizing concurrent dual band 2T2R Wi-Fi interfaces leverage both the 2.4GHz and 5GHz bands.
- **Seamless Load Balance:** Powered by band-steering technology, the G.hn Powerline Extender seamlessly balances devices amongst the dual Wi-Fi bands.
- **Smart Wi-Fi Technology:** Airtime fairness/QoS ensures the higher capacity for a distributed home network with multiple nodes.
- **ON/OFF switch for IoT:** In addition to Access Point for IoT devices, an ON/OFF switch of AC socket is also supported.
- **APP for IoT & Powerline Wi-Fi Diagnose:** Supports APP for IoT and powerline/Wi-Fi diagnose for rapid self-installation.
- **Amazon/Google Smart Voice:** It is capable of managing the smart home through Amazon Alexa or Google home.

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## SPECIFICATIONS

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<b>Interfaces</b>	<ul style="list-style-type: none"><li>▪ RJ-45 X 2 for GE Ethernet</li><li>▪ LED Indicators:, G.hn, 2.4GHz, 5.0GHz, PWR, switch on/off</li><li>▪ Buttons: G.hn pairing, Wi-Fi ON/OFF, RESET</li><li>▪ Internal Wi-Fi DB Antenna X 2</li><li>▪ On/off switch of AC socket</li></ul>
<b>G.hn (PLC)</b>	<ul style="list-style-type: none"><li>▪ ITU-T G.9960 &amp; G.9961 compliant</li><li>▪ G.hn 100MHz MIMO</li><li>▪ NDIM support</li></ul>
<b>WLAN (Wi-Fi)</b>	<ul style="list-style-type: none"><li>▪ 802.11 b/g/n, 2412 ~ 2484 MHz, BW 20/40M</li><li>▪ 802.11 a/n/ac, 5180 ~ 5825 MHz , Wave-2 compatible with MU-MIMO, BW 20/40/80</li><li>▪ Concurrent 2.4GHz &amp; 5GHz. 2T2R</li><li>▪ Compliance DFS @5GHz</li></ul>
<b>Management</b>	<ul style="list-style-type: none"><li>▪ HTTP Web-based</li><li>▪ Single TR-069 entity for G.hn &amp; Wi-Fi functions</li><li>▪ TR-069 over IPv4/v6 dual stack</li><li>▪ APP</li></ul>
<b>Security</b>	<ul style="list-style-type: none"><li>▪ G.hn 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>▪ 198-242 VAC, 50Hz/60Hz, Socket: 12A</li></ul>
<b>Dimensions</b>	<ul style="list-style-type: none"><li>▪ 164.2 mm X 82 mm X 37.7 mm (not including AC/DC PSU)</li></ul>
<b>Certifications</b>	<ul style="list-style-type: none"><li>▪ FCC, CE, IEC60884, VDE02620, NF C 61-314, ITU-T G.hn Standard</li></ul> <p>Note: Specifications are subject to change without notice.</p>
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 open the casing  
Do NOT use near water

## 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.