

# G.hn Wave2 Powerline IoT AC1200

## Powerline Ethernet Wi-Fi Adapter

G.hn | 100MHz MIMO | 2x GE LAN | 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.

# PG-9086

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

SPECIFICATIONS	
<b>Interfaces</b>	<ul style="list-style-type: none"><li>2x Gigabit Ethernet LAN</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>2x Internal Wi-Fi DB Antenna</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>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>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>CE, VDE02620, 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 301 489-1 / EN 301 489-17  
EN 300 328 / EN 301 893 / EN 62311  
EN 62368-1 ( Includes ErP )



## COMTREND

**Taiwan:**  
3F-1, No.10, Lane 609, Chongxin Road, Section 5,  
Sanzhong Dist, New Taipei City 241405, Taiwan  
Tel: +886-2-29998261

**USA & Canada:**  
530 Technology Dr, Suite 100, Irvine,  
CA 92618, USA  
Tel: +1-949-753-9640

**Spain:**  
C/ Proci3n, 7 portal 2, 1º C - Edif. Am3rica II  
28023 Madrid, Spain  
Tel: 34-917990403

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