COMTREND

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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Interfaces	▪ RJ-45 X 2 for GE Ethernet ▪ LED Indicators:, G.hn, 2.4GHz, 5.0GHz, PWR, switch on/off ▪ Buttons: G.hn pairing, Wi-Fi ON/OFF, RESET ▪ Internal Wi-Fi DB Antenna X 2 ▪ On/off switch of AC socket
G.hn (PLC)	▪ ITU-T G.9960 & G.9961 compliant ▪ G.hn 100MHz MIMO ▪ NDIM support
WLAN (Wi-Fi)	▪ 802.11 b/g/n, 2412 ~ 2484 MHz, BW 20/40M ▪ 802.11 a/n/ac, 5180 ~ 5825 MHz , Wave-2 compatible with MU-MIMO, BW 20/40/80 ▪ Concurrent 2.4GHz & 5GHz. 2T2R ▪ Compliance DFS @5GHz
Management	▪ HTTP Web-based ▪ Single TR-069 entity for G.hn & Wi-Fi functions ▪ TR-069 over IPv4/v6 dual stack ▪ APP
Security	▪ G.hn 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	▪ 198-242 VAC, 50Hz/60Hz, Socket: 12A
Dimensions	▪ 164.2 mm X 82 mm X 37.7 mm (not including AC/DC PSU)
Certifications	▪ FCC, CE, IEC60884, VDE02620, NF C 61-314, ITU-T G.hn Standard Note: Specifications are subject to change without notice.
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

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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.