

# G.hn Wave2 Powerline DC

G.hn 1.2Gbps | 100MHz MIMO | 12VDC/30W

## PG-9180dc



The **PowerGrid 9180dc**, 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 9180dc comes with plug-and-play technology. Additional 12V/30W DC output is provided with CPE power adaptor saving on wall socket usage.

The PowerGrid 9180dc supports the new generation of so-called G.hn wave2 tech, 100MHz MIMO operation and can be used with two fully programmable reception and transmission paths to attain up to 1.2Gbps PHY over powerline. The PowerGrid 9180dc comes pre-configured allowing easy installation / configuration and it features 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 plans 100 MHz MIMO techniques boosting 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:** High speed (around max 1000 Mbps) dramatically increases the performance of next-generation home entertainment applications.
- **Extends Connecting Range & Eliminates Dead Spots:** Unlike wireless, Power line technology is capable of actually covering more than 95% of a typical household area.
- **Security:** With advanced data encryption capability, the power line networks are safer and more secure.
- **12V/30W DC output:** Integrating a CPE power adaptor inside for saving a wall socket, and also saving on the external power supply of a home gateway, wireless AP, STB or IP Camera.

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## SPECIFICATIONS

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|-----------------------------|--|
| <b>Interfaces</b>           | <ul style="list-style-type: none"><li>▪ RJ-45 X 1 for Ethernet connection</li><li>▪ DC output X 1 for 12Vdc output</li><li>▪ AC power jack X 1 for AC power cord</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 M bps 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>AC Power</b>             | <ul style="list-style-type: none"><li>▪ 100-240 VAC, 50Hz/60Hz</li></ul>   |
| <b>DC Power</b>             | <ul style="list-style-type: none"><li>▪ 12VDC/30W under 30 degrees Celsius</li><li>▪ 12VDC/24W under 40 degrees Celsius</li><li>▪ DC plug: 2.5mm ID x 5.5 mm OD</li></ul>  |
| <b>Dimensions</b>           | <ul style="list-style-type: none"><li>▪ 39mm (H) x 72mm (W) x 132 mm (D)</li></ul>   |
| <b>Certifications</b>       | <ul style="list-style-type: none"><li>▪ FCC, cUL, CE, 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>     | 0 ~ 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.