COMTREND

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

PG-9180dc
Powerline Ethernet + Y-cable Adapter

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 1.2Gps 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.

FEATURES

· **MIMO Performance**
Support ITU-T G.hn baseband plans 50 and 100 MHz and MIMO techniques for powerline (based on G.9963) boosting PLC throughput up to 1.2Gbps PHY rate over powerline and having Robust Communication Mode (RCM) to prevent noise interference from other home appliances.

· **High Speed Data Transmission**
High speed (around max 1000 Mbps) dramatically increases the performance of next-generation home entertainment applications such as multiple high definition (HD) TV over IP (IPTV), 3D TV and VoIP, digital video recorder (DVR) networking and media center PCs.

· **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!
PowerGrid 9180dc can be paired easily by simply connecting Ethernet cables to routers and devices.

· **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 CPE power adaptor inside for saving a wall socket, and also saving the external power supply of home gateway, wireless AP, STB and IP Camera

PowerGrid Series PG-9180dc

G.hn | Data 1Gbps | 100MHz MIMO | 12VDC/30W

SPECIFICATIONS

Interface
- RJ-45 X 1 for Ethernet connection
- DC output X 1 for 12Vdc output
- AC power jack X 1 for AC power cord
- LED Indicators: G.hn, LAN, PWR, Security
- Buttons: G.hn pairing, RESET

Ethernet
- Standard IEEE 802.3
- 10/100/1000 Mbps BaseT auto-sense
- Auto rate and duplex negotiation
- MDI/MDX support

G.hn
- MaxLinear 88LX5152 + 88LX2720
- ITU-T G.9960 & G.9961 compliant
- G.hn 100MHz MIMO
- Up to 1200 M bps at Phy rate
- NDIM support

Modulations
- OFDM, FEC; Flexible frequency configuration

Management
- HTTP Web-based (optional)
- TR-069 over IPv4/v6 dual stack (optional)

Security
- 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

AC Power
- 100-240 VAC, 50Hz/60Hz

DC Power
- 12VDC/30W under 30 degrees Celsius
- 12VDC/24W under 40 degrees Celsius.
- DC plug: 2.5mm ID x 5.5 mm OD

Environment Condition
- Operating temperature: 0 ~ 40 degrees Celsius
- Relative humidity: 0 ~ 95% (non-condensing)

Dimensions
- 39mm (H) x 72mm (W) x 132 mm (D)

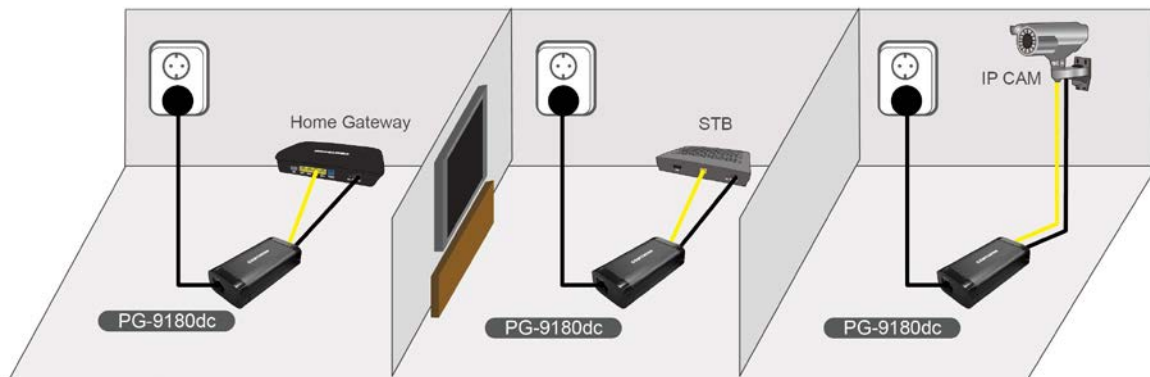### Certifications
- FCC, cUL, CE, ITU-T G.hn Standard

Note: Specifications are subject to change without notice.

⚠ WARNING

Disconnect the PLC from the power source before servicing
For indoor user only
Do NOT open the casing
Do NOT use near water

Applications Diagram

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