PowerGrid9020 Series

Powerline Ethernet Adapter

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Description

The PowerGrid9020, UPA (Universal Powerline Association) DHS (Digital Home Standard) and OPERA broadband standard compliant Ethernet adapter, provides high quality data transmission for high-speed networking. It allows users to extend a local area network via existing power lines, which eliminates the need for extra wiring. Installation in a home (or small office) is quick and easy as the PowerGrid9020 comes complete with plug and play technology.

Comtrend's PowerGrid9020 can achieve line 200 Mbps peak PHY rates for whole-home High-Definition video streaming and advanced CPE application. Such high speed transmission can support on-demand video, on-line gaming, multimedia downloading or other broadband uses. Sharing peripherals such as DVs, printers, scanners and digital cameras is also supported. Additionally, the PowerGrid9020 features advanced encryption algorithms to safeguard your network integrity.

Features

- **High Speed Data Transmission**
  Speeds of up to 200Mbps to support broadband applications such as video, gaming, digital music, file sharing, and Internet browsing in the home.
- **No Extra Wires Needed**
  Homeowners can extend their local area network without the hassle of installing extra wiring since every home has its own power line network already in place.
- **Plug & Play**
  Quick and easy connections with embedded plug and play. To extend a network, simply plug a pair of adapters into any two power outlets. No configuration required!
- **Extends Connecting Range And Eliminates Dead Spots**
  Unlike wireless, Powerline technology can cover in excess of 99% of the home.
- **More Outlets than Other Wired Solutions**
  On average, there are 45 power outlets in a home. This compares with only 3-5 cable or phone outlets. This makes it much more convenient to extend a network over power lines.
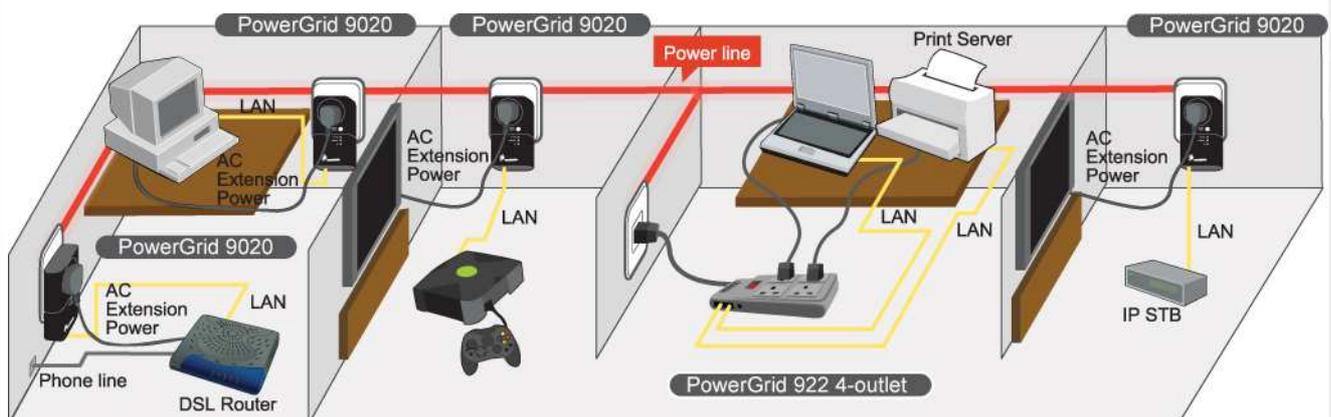- **Female Power Socket with AC Filter**
  Extend a network without losing a single power outlet since every unit has a female socket with AC filter that prevents line interference and noise from connected equipment degrading the PLC signal.
- **Security**
  With advanced data encryption capability, the power line network is safe and secure.

Applications Diagram

Specifications

Interface
RJ-45 X 1 for Ethernet connection

Ethernet

Standard	IEEE 802.3, IEEE 802.3u
10/100 BaseT	Auto-sense
MDI/MDX support	Yes

Modulations

OFDM, 1536 Carriers	Flexible frequency configuration

Data Rate
Up to 200Mbps

Management
HTTP Web-based management; Firmware upgrade via TFTP
TR-069 Supported (Optional)

Security
Mixed DES/3DES and AES(128 bit, 256 bit) encryption guarantees total data security

Network Protocols

802.1D Ethernet Bridge	Yes
802.1Q VLAN	Yes
Quality of Service (QoS)	Yes
IGMP(IPv4) Snooping & MLD(IPv6) Snooping	

Power
110-240 VAC 50H/60H
Filtered female outlet support up to 10A
Power consumption max 4.2W.
Auto power saving mode max 1 W

Environment Conditions

Operating temperature	0 ~ 40 degrees Celsius
Relative humidity	10 ~ 90% (non-condensing)

Dimensions

UK version	68 mm (W) x 124 mm (H) x 46 mm(69 mm with plug)(D)
EU version	68 mm (W) x 137 mm (H) x 61 mm(81 mm with plug)(D)

Certifications
FCC, CE

Note: Specifications are subject to change without notice.

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