PowerGrid902
Powerline Ethernet Adapter

COMTREND
Leading the Communication Trend

Description

The PowerGrid902, UPA (Universal Powerline Association) 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 PowerGrid902 comes complete with plug and play technology.

Comtrend's PowerGrid902 can achieve line rates of up to 200 Mbps. 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 PowerGrid902 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.
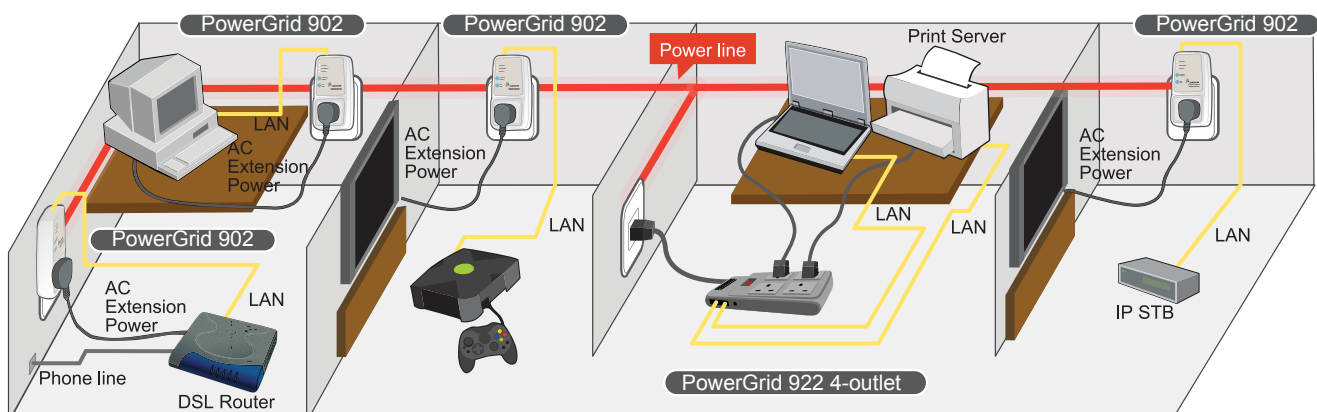
· **Female Power Socket with AC Filter**
Extend a network without losing a single power outlet since every unit has a female socket with AC filter that prevents line interference and noise from connected equipment degrading the PLC signal.

· **Security**
With advanced data encryption capability, the power line network is safe and secure.

Applications Diagram

PowerGrid902
Powerline Ethernet Adapter

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

Security

Mixed DES/3DES and AES encryption guarantees total data security

Network Protocols

802.1D Ethernet Bridge	Yes
802.1Q VLAN	Yes
Quality of Service (QoS)	Yes

Power

110-240 VAC; Filtered Female outlet support 10A, power consumption less than 5W.

Environment Conditions

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

Dimensions

72 mm (W) x 144 mm (H) x 56 mm (D)

Certifications

FCC, CE, UL

Note: Specifications are subject to change without notice.

COMTREND CORPORATION
Global contact: sales@comtrend.com
Website: www.comtrend.com