level® one

500Mbps Powerline
4-Port Gigabit Switch

PLI-4251

H/W Version: 1

Product Overview

The LevelOne PLI-4251 500Mbps Polwerline 4-Port Gigabit Switch is suitable for connecting multiple bandwidth intensive applications. With easy plug and play installation, you can easily combine all fo your AV electronics together and instantly enjoy your Entertainment Center from virtually any room in your home.
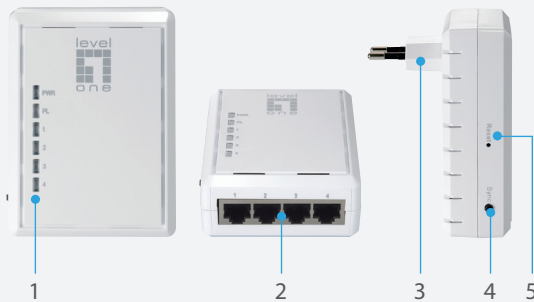
Utilizing the home power line infrastructure

Transmit data by using the existing electrical wiring in the building. Simply plug the PLI-4251 into an AC outlet. This is a fast, simple, and cost-effective alternative instead of installing expensive Ethernet cables throughout entire home or office, you can easily combine all fo your AV electronics together and instantly enjoy your Entertainment .

Built-in QoS for fast network speeds

The PLI-4251 is featured with Quality of Service (QoS) to ensures a sufficient bandwidth for delivering high-quality multimedia streams over powerline network. Complies with the HomePlug AV standard, users can enjoy 500Mbps data transfer rates for all bandwidth-hungry applications, such as VoIP, video/audio streams, gaming consoles, or any other applications which requires a high-speed Internet connectivity.

The PLI-4251 also provides 128-bit AES encryption with one-push button for easy achievements of network protection and secured data transmission.

1. LED Indicators
2. RJ-45 Ethernet Port
3. Power Plug
4. Security Push Button
5. Reset Button

1   2   3   4   5

Key Features

- 4-port Gigabit Ethernet switch capability (IEEE 802.3ab, 1000BASE-T)
- Designed for high-definition multimedia streaming
- Built-in QoS engine for prioritized audio and video streaming
- Data rate of up to 500Mbps over existing electrical wiring
- 128-bit AES encryption for network protection enhancement
- Simple Plug and Play installation
- Easy-to-use utility for powerline network management
- Security push button for software free configuration

Works Well With

PLI-3411
200Mbps Powerline Wireless Access Point

FCS-0040
1.3-Megapixel Network Camera

Technical Specification

Computer Interface
IEEE802.3 (10BASE-T)
IEEE802.3u (100BASE-T)
IEEE802.3ab (1000BASE-T)

Standards
IEEE1901/ HomePlug AV

Network Interface
Four RJ-45 (10/100/1000Base-T Ethernet) support 500Mbps
Power Line Port

Security
128-bit AES Link Encryption with Key Management

Software
Utility for Microsoft Windows 98 SE, ME, 2000, XP, and 32-bit
Vista, 7

Data Transfer Rate
500 Mbps over Powerline and 10/100/1000Mbps over Ethernet

Modulation Schemes
OFDM Symbol Modulation on Line synchronization
1024/256/64/16/8 - QAM, QPSK, BPSK, ROBO Carrier Modulation

Frequency Band
2 ~ 50 MHz

Additional Protocols
Mix of TDMA and CSMA/CA channel access scheme;
CO device generates a periodic beacon carrier for channel
access scheme

Operation Range
Estimated range of 300m in wall power lines

Cabling
100Base-T Cat. 5e or above UTP cable

Operating Temperature
0℃ to 40℃

Storage Temperature
-20℃ to 70℃

Humidity
10% to 90% (non-condensing)

Power Input
100 ~ 240V @ 50/60Hz Internal

Power Save
Standby Mode < 1W

Housing
Plastic (105mm x 76mm x 33mm)

Software Utility
Device Detect/Diagnostic, NEK Password Setup for Local and
Remote Device Windows 2000, ME, NT, XP, or Vista, 7 for Initial
Setup

LED
Power: on / off
PLC link: red / orange / green / off
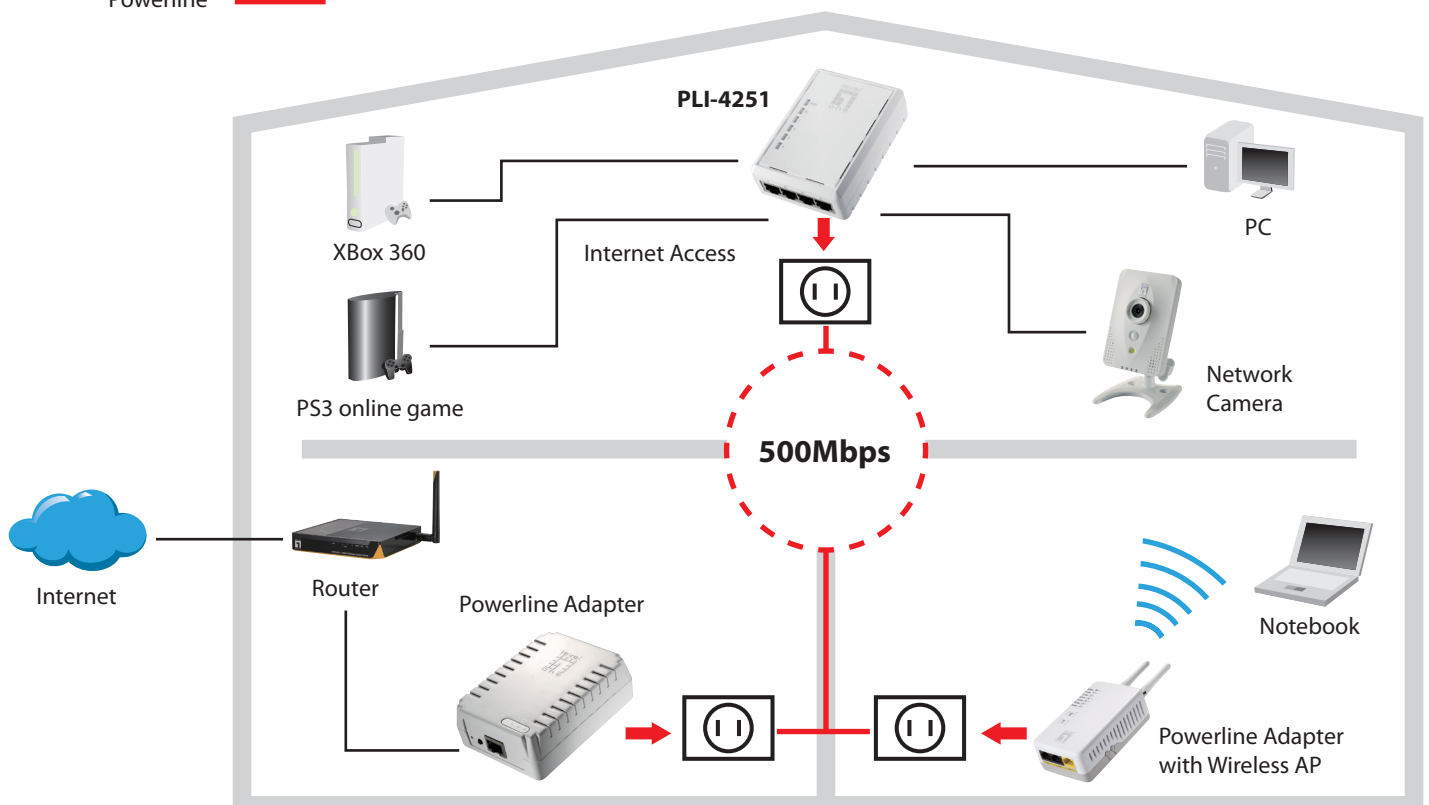Ethernet link 1 through 4: solid / blinking/ off

Certifications
HomePlug AV PowerLine Specification
FCC Class B / CE Mark / HomePlug Certification

Product Diagram

Order Information	**PLI-4251:** 500Mbps Powerline 4-Port Gigabit Switch
Package Contents	PLI-4251
	RJ-45 Ethernet LAN Cable
	Quick Installation Guide
	CD Manual / Utility

V1.0