



500Mbps Powerline Gigabit Adapter



PLI-4051

H/W Version: 1

Product Overview

The LevelOne PLI-4051 500Mbps Powerline Gigabit Adapter is a cost-effective Ethernet adapter which allows home and office users to build-up a speedy data network over exiting electrical wiring. It is ideal for users when it comes down to device placement in the workspace either home or office.

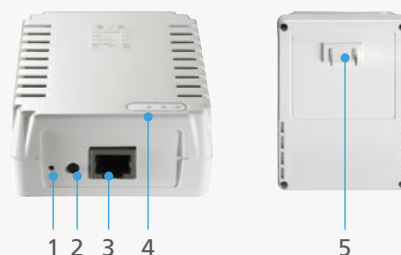
Utilizing the home power line infrastructure

Transmit data by using the existing electrical wiring in the building. Simply plug the PLI-4051 into an AC outlet. This is a fast, simple, and cost-effective alternative instead of installing expensive Ethernet cables throughout entire home or office. For this purpose the dual-pack starter kit of PLI-4051 is also available for a quick setup of a powerline network.

Built-in QoS for fast network speeds

The PLI-4051 is featured with Quality of Service (QoS) to ensure 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-4051 also provides 128-bit AES encryption with one-push button for easy achievements of network protection and secured data transmission.



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

Key Features

- Gigabit Ethernet 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

Related Products



PLI-3411
200Mbps Powerline Wireless Access Point



PLI-3510
200Mbps Powerline Adapter with Mains Pass-Through

Technical Specification

Computer Interface

IEEE802.3; IEEE802.3u; IEEE802.3ab

Standards

IEEE1901/ HomePlug AV

Network Interface

One 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°C to 40°C

Storage Temperature

-20°C to 70°C

Humidity

10% to 90% (non-condensing)

Power Input

100 ~ 240V @ 50/60Hz Internal

Power Save

Standby Mode <1W

Housing

Plastic (99mm x 73mm x 34mm)

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

PL – Link/Act; Traffic–Link/Act; ETH – Link/Act

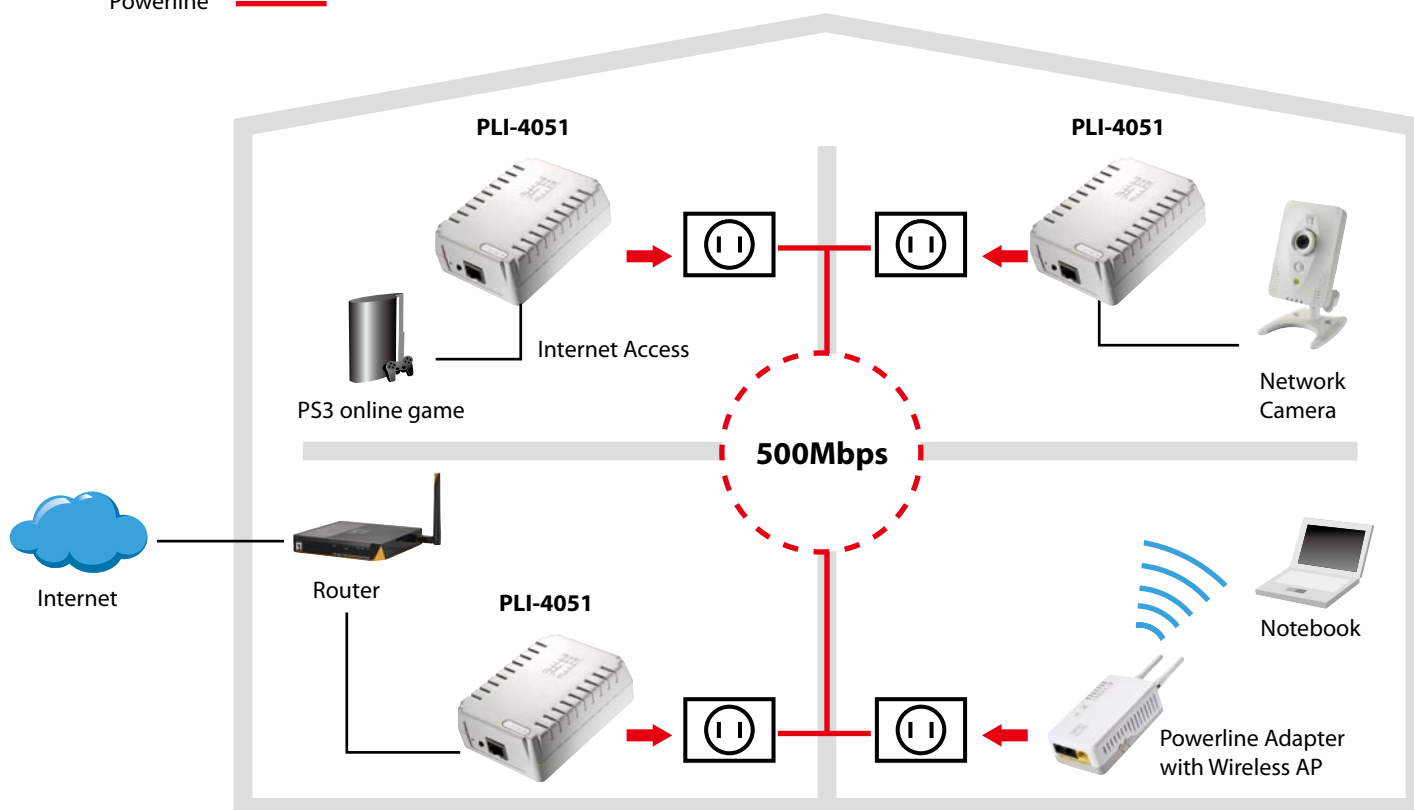
Certifications

HomePlug AV PowerLine Specification

FCC Class B / CE Mark / HomePlug Certification

Product Diagram

Ethernet Cable (RJ-45) ———
Powerline ———



Order Information

Package Contents

PLI-4051: 500Mbps Powerline Gigabit Adapter

PLI-4051

RJ-45 Ethernet LAN Cable

Quick Installation Guide

CD Manual / Utility