

Powerline-PLC PL201/4

Bridge & Switch

200 Mbps HomePlug AV Powerline

Power Up Your Home Networking

Transform your home power cables into a high-speed computer network. Compliant with the latest HomePlug AV Standard and with data transmission rate of up to 200Mbps, the PL201/PL204SW is a great networking solution for connecting different devices such as modems, routers, PCs, set-top-boxes, IP Cameras, and game consoles using existing power cables. The AC Pass-through power socket with noise filtering is a handy add-on. It offers users an extra electrical outlet to enhance power usage in residential applications while ensuring the data signal is transmitted smoothly. This allows users to share multimedia applications such as online games, IPTV and audio streaming with family all around the house. Its unique Smart Power Saving technology can automatically detect the link status of connected devices and adjust its power consumption to enhance power efficiency, thus saving money on electricity bills.

No Extra Wiring Needed to Set Up an In-home Network

With The PL201/PL204SW, you can create a network with high-speed bandwidth to connect computers and game consoles without the need for further drilling or extra wires. Just one touch of the Group button to install the bridge utility and your high-speed network is ready. It's as easy as simply plugging in your networking devices and using the power cables in your home.

Smooth Traffic and Prioritization

Quality of Service (QoS) control guarantees the transmission quality by automatically prioritizing data. The PL201/PL204SW will automatically recognize the bandwidth needs of voice and video applications. QoS prioritizes the data in order to guarantee optimal transmission quality. TV and video images are received and displayed with absolute smoothness. QoS also guarantees clear and instant transmission of voice data, even when other applications are running on the network at the same time. QoS makes your network a pleasure to use.



Immunity from Noise and Intervention

Unlike other HomePlug devices, the PL201/PL204SW supports superior and noise-immune data transmission over in-home electrical power lines. Even when your family turns on an electronic device or turns off a light, you won't experience any interruption to latency-sensitive applications such as multimedia or video being shared with your family in another room.

Energy Efficiency

Due to climate change, Green IT is becoming a big issue in current times. With the Smart Power Saving technology, the PL201/PL204SW can automatically detect its Ethernet connection. When an Ethernet-based device is powered down or disconnected, the PL201/PL204SW adapter will automatically fall into sleep mode, which reduces power consumption significantly. Furthermore, when the current usage is in full operation, the adapter can reduce its power consumption which in turn saves money on your electricity bill. Create a "Green" home with the PL201/PL204SW and become more energy efficient!

High Speed Data Transmission

PL201/PL204SW provides home users the ability to extend their broadband network with data throughput of up to 200 Mbps. The Powerline Ethernet AV Networking Kit includes two adapters PL201 (1-port), PL204SW (4-port) that leverage the existing electrical wiring in the house to create a high speed network connection for Internet access or in-house media streaming.



Features

- Provides high-speed data transfer of up to 200Mbps via electrical wiring
- Enable data transmission through existing home power grid
- Smart power saving technology for improved power efficiency
- Utilizes Quality of Service control

- Utilizes Quality of Service control
- Supports Triple Play applications such as IPTV, VoIP and high-speed Internet access
- Supports 10/100 BaseT Ethernet
- Compliant with the HomePlug Powerline Alliance industry specifications
- Utmost slim and light design
- Ideal for residential users
- Quick Setup Group Button.
- Built-in reset button

Specifications

Chipset : Intellon INT6400 HomePlug AV

Data Rates :

TCP: Up to 82 Mbps effective throughput

UDP: Up to 90 Mbps effective throughput

Standard:

- Ethernet specifications: IEEE 802.3, IEEE 802.3x, IEEE 802.3u, Auto MDI/MDIX
- HomePlug AV compliant, **Support IEEE 1901**

LED :

PL201 : 1. Power (blue), 2. Powerline Activity (blue), 3. Ethernet Link/Activity (Green)

PL204: 1. Power (blue), 2. Powerline Activity (blue), 3. AV/1.0 DET (Green), 4.Port (Green, Yellow)

Ethernet PORT:

PL201 : One-Port Ethernet

PL202: One-Port Ethernet

PL204: Four-Port Ethernet Switch

Security:

- 128-bit AES Link Encryption with key management for secure power line communications
- Encryption:
 - NMK (Network Membership Key) used to authenticate/access
- Rotating NEK (Network Encryption Key)

Modulation: Supports OFDM

- 1155 carriers, 1024/256/64/16/8 QAM, QPSK, BPSK and ROBO

Frequency Range : 2MHz ~ 30MHz

Access Methods : CSMA/CA channel-access schemes

QoS : Four-level priority based contention access, and multi segment bursting

8-level VLAN priority field, TOS field

QoS Classification by destination MAC address and IP Port

Supported Operating Systems

- Windows 98/98SE/Me/2000/XP/Vista/Windows 7

Power Supply Specifications

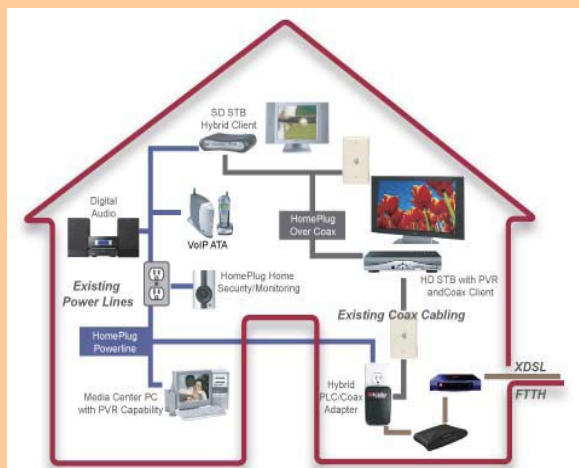
- Input: 100~240V AC, 50~60Hz

Smart Power Saving (depends on power input voltage)

- Up to 20% power reduction in full operation
- Up to 50% power reduction in standby mode

Distance AC Wire : 300 meters

Max. devices in a network Group : Up to 63 slaves with 1 master, 64 total devices



Quality of Service Control

- Enhancements: contention-free access, four-level priority based contention access, and multi segment bursting
- ToS, CoS and IP Port Number Packet Classifiers
- Supports IGMP managed multicast sessions
- IGMP snooping with multicast to multiple unicast support in CSMA
- QoS classification for quasi-error-free delivery
- VLAN priority field, ToS Field
- Enhanced IPv4/IGMPv1-3 snooping support
- Supports IPv6 and MLDv1-2 snooping

Max 16 source addresses and Group Members

Dimensions (W, D, H): 115 mm x 75 mm x 30mm

Cartoon **(W, D, H):** 330 mm x 455 mm x 475 mm

Operating Environment

- Operating temperature: 0 ~ 40 °C
- Storage temperature: -20 ~ 70 °C
- Humidity: 20 ~ 95% non-condensing

Certification Compliance RoHS Compliant , CE

Safety Approvals EN 60950

Ordering Information

Part Number	Description
PL201	HomePlug AV ,200M Ethernet Adapter
PL101	HomePlug AV ,200M Ethernet Adapter, Space-Saving
PL204SW	HomePlug AV, 200M Ethernet Switch, Built-in 4-port

