

PA-3014 – Homeplug Turbo Adaptor



The **3014** high speed Ethernet Homeplug Adaptor offer data transfer rate at up to 85Mbps over the household power circuit. With data rates of 85Mbps, **3014** can easily support full multimedia application throughout the whole house in addition to Internet access. It uses the existing power lines installed in a home as a path to transmit digital data, voice, audio and video between devices.

To ensure data communication's security and multimedia applications, **3014** support built-in 56-bit DES encryption and Quality of Service features.

FEATURES

- HomePlug Turbo compatible
- HomePlug 1.0 compatible
- High speed data transfer rate up to 85Mbps
- Co-existence with HomePlug 1.0 nodes
- Support Triple-Play (Data, Audio, Video) application
- Compact and wall-hugging design
- Operates on existing Home Electric (AC) Wiring
- Operation range up to 300m in wall power line
- Changeable power-header for worldwide power socket
- Intelligent channel adaptation maximizes throughput under harsh channel and noisy media conditions
- Built-in QoS and Error Correction features
- 56-bit DES Link Encryption with key management for secure power-line communications
- Hassle-free communication software suit provided
- RoHS (Lead-Free) compliant

PHYSICAL

- Dimension: 102mm (L) X 71mm (W) X 22mm (H)
- Weight: 145 grams

HARDWARE INTERFACE

- One Power Line Interface
- One 10/100Mbps Ethernet Interface
- Status LED Indicator

ENVIRONMENTAL

- Temperature: +0 ~ +60 °C
- Humidity: 10% ~ 90% RH

APPROVALS

- FCC Part 15 , CE and EN60950 (LVD)
- RoHS/ WEEE compliance

SPECIFICATIONS

HOMEPLUG TURBO

- High speed data transfer rate up to 85Mbps
- Backward-compatible to HomePlug standard 1.0
- High-speed HomePlug adapter with Ethernet interface
- Fully compatible to HomePlug 1.0
- Supports QAM 256/64/16, DQPSK, DBPSK and ROBO modulation
- Low power consumption
- OFDM techniques for high data reliability in noisy media conditions
- Intelligent channel adaptation maximizes throughput under harsh channel conditions
- Integrated Quality of Service (QoS) features
- 56-bit DES Link Encryption with key management for secure power-line communications
- Transmission range up to 200m over household power supply grid
- Ethernet specifications IEEE 802.3u compliant
- Support Auto MDI / MDIX feature

OPERATING SYSTEM

- Windows 98SE with TCP/IP support
- Windows 2000 with TCP/IP support
- Windows ME with TCP/IP support
- Windows XP with TCP/IP support
- Linux with TCP/IP support
- Mac OS with TCP/IP support

TARGET APPLICATION

- Standard Video TV (SDTV) Distribution
- Higher data rate broadband sharing
- Shared broadband Internet access
- Audio and video streaming and transfer
- Expanding the coverage of wireless LANs
- Voice Over IP calls
- PC file and application sharing
- Printer and peripheral sharing
- Network and online gaming
- Security cameras

Specifications are subject to change without notice.

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PA-3214 – HomePlug AV Adaptor



The **PA-3214** high speed Ethernet HomePlug AV Adaptor offer data transfer rate at up to 200Mbps over the household power circuit. With data rates of 200Mbps, **PA-3214** can easily support full multimedia application throughout the whole house in addition to Internet access. It uses the existing power lines installed in a home as a path to transmit digital data, voice, audio and video between devices.

To ensure data communication's security and multimedia applications, **PA-3214** support built-in 128-bit AES encryption and Quality of Service features.

FEATURES

- HomePlug AV standard compliant
- High speed data transfer rate up to **200 Mbps**
- Support Triple-Play (Data, Audio, Video) application
- Compact and wall-hugging design
- Operates on existing Home Electric (AC) Wiring
- Operation range up to 200m in wall power line
- Changeable power-header for worldwide power socket
- Intelligent channel adaptation maximizes throughput under harsh channel and noisy media conditions
- Built-in QoS and Error Correction features
- **128-bit AES** Link Encryption with key management for secure power-line communications
- Hassle-free communication software suit provided
- RoHS (Lead-Free) compliant
- Support the Push buttons "Pair" and "Reset" on the case to establish the connection and reset to default

PHYSICAL

- Dimension: 102mm (L) X 71mm (W) X 22mm (H)
- Weight: 145 grams

HARDWARE INTERFACE

- One Power Line Interface
- One 10/100Mbps Ethernet Interface
- Status LED Indicator

ENVIRONMENTAL

- Temperature: +0 ~ +60 °C
- Humidity: 10% ~ 90% RH

APPROVALS

- FCC Part 15 , CE and EN60950 (LVD)
- RoHS/ WEEE compliance

SPECIFICATIONS

HomePlug AV

- High speed data transfer rate up to 200Mbps
- HomePlug AV standard compliant
- Co-existence with HomePlug 1.0 nodes
- High-speed HomePlug adapter with Ethernet interface
- Supports IGMP managed multicast IP transmission
- OFDM techniques for high data reliability in noisy media conditions
- Support TDMA and CSMA/CA channel-access schemes for optimum MAC performance
- Intelligent channel adaptation maximizes throughput under harsh channel conditions
- Advanced Turbo Code Forward Error Correction
- Supports 1024/256/64/16/8 QAM, QPSK, BPSK, and ROBO modulation schemes
- 128-bit AES Link Encryption with key management for secure power-line communications
- Integrated Quality of Service (QoS) features
- Flash interface for fast access to configuration parameters
- Transmission range up to 200m over household power supply grid
- Ethernet specifications IEEE 802.3u compliant
- Support Auto MDI / MDIX feature

OPERATING SYSTEM

- Windows Vista/XP/2000 with TCP/IP support
- Linux with TCP/IP support
- Mac OS with TCP/IP support

TARGET APPLICATION

- HD and SD Video Distribution
- Internet Protocol Television (IPTV) Distribution
- Higher data rate broadband sharing
- Shared broadband Internet access
- Audio streaming and transfer
- Expanding the coverage of wireless LANs
- Voice Over IP
- PC file and application sharing
- Printer and peripheral sharing
- Network and online gaming
- Security cameras

Specifications are subject to change without notice.

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