

Solwise Ltd PL-500AV-4PE

HomePlug AV (500Mbps) > 4-Port Gigabit Ethernet Bridge

The Solwise HomePlug AV (500Mbps) 4-Port Gigabit Ethernet Bridge operates on the HomePlug Powerline AV Specification standard, providing up to 500Mbps bandwidth over home AC wiring. The 500AV-4PE uses Atheros' newest AR7400 chipset which is optimized for high definition streaming movies, online multi-player games, and other data intensive activities for today's HD Entertainment Center demand. Combined with a 4-Port Gigabit switch, the 500AV-4PE is suitable for connecting multiple bandwidth intensive applications. With easy plug and play installation, you can easily combine all of your AV electronics together and instantly enjoy your Entertainment Center from virtually any room in your home.

Like all of our HomePlug AV products, this 500AV-4PE is equipped with 128-bit AES security encryption. Combining the private home power grid and the 128-bit AES security encryption, this 500AV-4PE is extremely secure compared to other technologies such as WiFi network.

Features



- Atheros AR7400 (4th generation)
- IEEE1901 / HomePlug AV standard
- Ultra small casing
- Extension to 68Mhz spectrum and up to 500Mbps PHY rate
- 4-Port Gigabit Ethernet Switch capability (IEEE 802.3ab, 1000BASE-T)
- Co-exists with HomePlug 1.0 (14/85Mbps)
- Stand-alone unit attaches directly to Broadband device and home power line
- network for seamless integration
- Security push button for software free configuration

Specifications

Main Chipset	Atheros AR7400
Computer Interface	IEEE802.3 (10BASE-T) IEEE802.3u (100BASE-T) IEEE802.3ab (1000BASE-T)
Standards	IEEE 1901 / HomePlug AV
Network Interface	Four RJ-45 (10/100/1000Base-T Ethernet) One 500Mbps power line port supporting co-existence with HomePlug 1.0 (14/85Mbps)
Security	128-bit AES link encryption with key management
Data PHY Rate	500Mbps 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 300 meters in wall power lines
Cabling	Cat. 5 UTP cable
Operating Temperature	0°C to 40°C ambient temperature
Storage Temperature	-20°C to 70°C ambient temperature
Humidity	10 to 90% maximum (non-condensing)
Power Input	100 ~ 240V @ 50/60Hz internal
Power Connector	Embedded US / EU / UK / AU specifications
Housing	Plastic (105mm x 76mm x 33mm)
Software Utility	Device detect/diagnostic, NEK password setup for local and remote device Windows 98 SE, ME, 2000, NT, XP, Vista, or 7 for initial setup (optional)
Status Lights	Power: on / off PLC link: red / orange / green / off Ethernet link 1 through 4: solid / blinking/ off
Certifications	HomePlug AV Powerline certification FCC Class B / CE mark

Application

