

## SGN 124

HomePlug AV 500Mbps 4-Port Ethernet Bridge

# PLC 500 Mbps 4-Port Ethernet



The SGN124 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 SGN124 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 SGN124 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 SGN124 is equipped with 128-bit AES security encryption. Combining the private home power grid and the 128-bit AES security encryption, this SGN124 is extremely secure compared to other technologies such as WiFi network.

Home Networking

Set-top box

Smart grid

Access

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# SGN 124

## HomePlug AV 500Mbps 4-port ethernet Bridge

### Features

- Qualcomm AR7400 chipset
- IEEE1901 / HomePlug AV standard
- 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
- Power packet utility provides unsophisticated users a way to graphically manage their HomePlug network (optional)

### Specifications

- |                         |                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| • Main Chipset          | Qualcomm AR7400                                                                                                                                    |
| • Computer Interface    | IEEE802.3 (10BASE-T)<br>IEEE802.3u (100BASE-T)<br>IEEE802.3ab (1000BASE-T)                                                                         |
| • Standards             | IEEE 1901 / HomePlug AV                                                                                                                            |
| • Network Interface     | Four RJ-45 (10/100/1000Base-T Ethernet)<br>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<br>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;<br>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<br>PLC link: red / orange / green / off<br>Ethernet link 1 through 4: solid / blinking/ off                                        |
| • Certifications        | HomePlug AV Powerline certification<br>FCC Class B / CE mark                                                                                       |

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