SGN 114

HomePlug AV 200Mbps 4-Port Ethernet Bridge

PLC 200 Mbps 4-Port Ethernet

The SGN114 HomePlug AV 4-Port Ethernet Bridge operates on the HomePlug Powerline AV Specification standard, providing up to 200Mbps bandwidth over home AC wiring. Combined with a broadband DSL/Cable connection, every room with electrical power outlets will have easy access to high-speed Internet connection. With the 200Mbps high bandwidth, this SGN114 can provide fast streaming HD movies, online multi-player games, and other data intensive activities for today's HD Entertainment Center demand. With a 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. The best part is that this SGN114 has built-in 4 Ethernet ports so up to 4 network enabled devices nearby can be networked at the same time.

Like all of our HomePlug AV products, this SGN114 is equipped with 128-bit AES security encryption. Combining the private home power grid and the 128-bit AES security encryption, this SGN114 is extremely secure compared to other technologies such as WiFi network.

Home Networking

Set-top box

Smart grid

Access

www.siligence.com

SGN 114

HomePlug AV 200Mbps 4-port ethernet Bridge

Features

- Stand-alone unit attaches directly to Broadband device and home power line network for seamless integration
- Up to 200Mbps PHY data rate over powerline
- Co-exists with HomePlug 1.0 (14/85Mbps)
- 4 built-in Ethernet ports for up to 4 network-enabled devices nearby to be networked
- 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 64XX
• Computer Interface	IEEE802.3 ; IEEE802.3u
• Standards	HomePlug AV
• Network Interface	Four RJ-45 (10/100Base-T Ethernet)
	One 200Mbps power line port supporting co-existence with HomePlug 1.0 (14/85Mbps)
• Security	128-bit AES link encryption with key management
• Data PHY Rate	200 Mbps over Powerline and 10/100Mbps over Ethernet
• Modulation Schemes	OFDM symbol modulation on line synchronization
	1024/256/64/16/8 - QAM, QPSK, BPSK, ROBO carrier modulation
• Frequency Band	2 ~ 28 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	100Base-T
	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

CE FC