

HomePlug AV2 (1.5Gbps) > Ethernet Bridge with MIMO

The GigaFast HomePlug AV2 1.5Gbps Ethernet Bridge operates on the HomePlug Powerline AV2 Specification standard, providing up to 1.5Gbps bandwidth over home AC wiring. PG959-EB65 is one of the smallest HomePlug AV2 1.5Gbps Ethernet Bridge on the market. The PG959-EB65 uses Broadcom BCM60500 chipset which is optimized for streaming high definition media applications. The BCM60500 includes a faster processor, high speed interfaces and an analog front end (AFE). With these added high performance abilities, PG959-EB65 is perfect for ultra-high speed HD entertainment networks in homes and is perfect for areas that are hard to reach by wireless connections. With a plug and play installation, you can easily combine all of your AV2 electronics together and instantly enjoy your Entertainment Center from virtually any room in your home. Combined with a broadband DSL/Cable connection, every room with electrical power outlets will have easy access to high-speed Internet connection.

Like all of our HomePlug AV2 products, this PG959-EB65 is equipped with 128-bit AES security encryption. Combining the private home power grid and the 128-bit AES security encryption, this PG959-EB65 is extremely secure compared to other technologies.



Features

- Broadcom BCM60500 chipset
- IEEE1901 / HomePlug AV2 standard
- Up to 1.5Gbps PHY rate
- MIMO with beam-forming technology provides maximum reach
- 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	Broadcom BCM60500
Computer Interface	IEEE802.3 (10BASE-T) IEEE802.3u (100BASE-T) IEEE802.3ab (1000BASE-T)
Standards	IEEE 1901 / HomePlug AV2
Network Interface	One RJ-45 (10/100/1000Base-T Ethernet) One 1.5Gbps power line port supporting co-existence with HomePlug 1.0 (14/85Mbps)
Security	128-bit AES link encryption with key management
Data PHY Rate	1.5Gbps 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 - 86 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 (79mmx64mmx38mm)
Software Utility	Device detect/diagnostic, NEK password setup for local and remote device Windows XP, 7, or 8 for initial setup (optional)
Status Lights	Power: on / off PLC link: red / orange / green / off Ethernet link: solid / blinking / off
Certifications	HomePlug AV2 Powerline certification FCC Class B / CE mark

Application

