

HomePlug AV2 (1Gbps) > Ethernet Bridge

The GigaFast HomePlug AV2 1Gbps Ethernet Bridge operates on the HomePlug Powerline AV Specification standard, providing up to 1Gbps bandwidth over home AC wiring. PN958-EB3 is one of the smallest HomePlug Av2 1Gbps Ethernet Bridge on the market. The PN958-EB3 uses BCM60350 chipset which is optimized for streaming high definition media applications. The BCM60350 includes a faster processor, high speed interfaces and an analog front end (AFE). With these added high performance abilities, PN958-EB3 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 AV 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 AV products, this PN958-EB3 is equipped with 128-bit AES security encryption. Combining the private home power grid and the 128-bit AES security encryption, this PN958-EB3 is extremely secure compared to other technologies such as WiFi networks.



Features

- Broadcom BCM60350
- IEEE1901 / HomePlug AV2 standard
- Up to 1Gbps PHY rate
- 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	Broadcom BCM60350
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 1Gbps power line port supporting co-existence with HomePlug 1.0 (14/85Mbps)
Security	128-bit AES link encryption with key management
Data PHY Rate	1Gbps 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 (64mm x 46.5mm x 24.5mm)
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 AV Powerline certification FCC Class B / CE mark

Application

