

HomePlug AV (1 Gigabit) > Ethernet Bridge

The GigaFast HomePlug AV 1 Gigabit Ethernet Bridge is the highest bandwidth performing with low latency powerline communication product in the market! PE938-EB operates on the HomePlug AV standard + Mediastream™ specification, providing up to 1 Gigabit per second bandwidth over existing home AC wiring. Combined with a broadband DSL/Cable connection, every room with electrical power outlets will have easy access to ultra high-speed Internet connection. With the 1 Gigabit high bandwidth, this PE938-EB can provide fast streaming HD movies, online multi-player games, and other data intensive activities for today's HD Entertainment Center demand. With an easy plug and play setup, you can easily combine all of your AV electronics together and instantly enjoy your Entertainment Center from virtually any room in your home.

In addition, the PE938-EB also offers Xtendnet™ technology, where each node added to a network can function as a repeater, increasing the overall range of the signal, assuring total home network coverage and improving throughput between distant devices. Like all of our HomePlug AV products, this PE938-EB is equipped with 128-bit AES security encryption. Combining the private home power grid and the 128-bit AES security encryption, this PE938-EB is extremely secure compared to other technologies such as WiFi network.



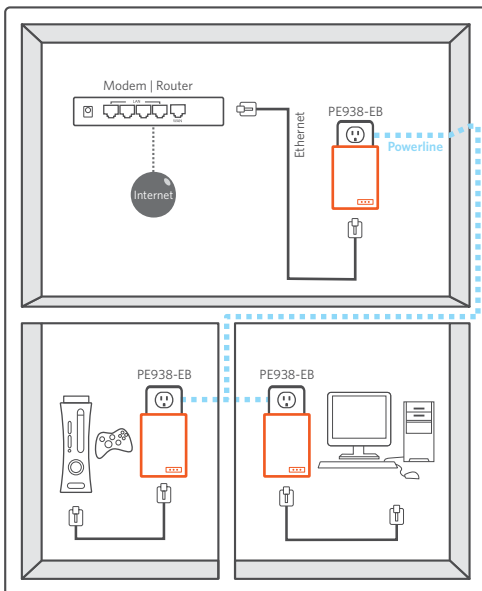
Features

- Optimized for HD/SD cable, satellite and IPTV installations, home multimedia content and storage, multi-room DVR networking, online/networked console and PC video game connections, and much more
- Dual-band powerline interface: HomePlug AV band + mediastream™ band
- Xtendnet™ Mesh repeating technology improving overall network performance when additional device is connected
- Maintains high data throughput even under extreme noise conditions commonly found in power lines
- Perfect for areas that are hard to reach by wireless connections

Specifications

Main Chipset	Gigle GGL541
Computer Interface	IEEE802.3u ; IEEE802.3ab, auto cross-over
Standards	HomePlug AV
Network Interface	One RJ-45 (10/100/1000 Base-T Ethernet) One 1000Mbps/1Gbps power line port fully interoperable with existing HomePlug AV products Multicast support via IGMP and MLD snooping

Application



Powerline Features	HomePlug AV	Mediastream™
Modulation	OFDM 1024/256/64/16/8 QAM, QPSK, BPSK	High speed multi-carrier modulation
PHY Rate	Up to 200Mbps	Up to 1Gbps
Scheduling	CSMA/CA and TDMA	CSMA/CA and TDMA
Frequency Band	2 - 28 MHz	50 - 300MHz
Security	128-bit AES encryption	128-bit AES encryption

Operation Range	Estimated range of 300 meters in wall power lines / up to 8 of the HomePlug AV Ethernet bridges per network
Cabling	1000/100Base-T ; Cat. 5/5e/6 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
Max. Power Consumption	5W
Power Connector	Embedded US / EU / UK / AU specifications
Housing	Plastic (98mm x 71mm x 34mm)
Buttons	Security button and factory Reset button
Status Lights	Power: on / off ; PLC link: red / orange / green / off Ethernet link: solid / blinking / off
Certifications	FCC Class B / CE mark / HomePlug AV powerline certification

