GigaFast
Powerline Communication OEM/ODM Experts

HomePlug Ethernet Power Supply

Model Number: PE929-EPg

HomePlug AV (200Mbps) > mini Ethernet Bridge with Pass Thru

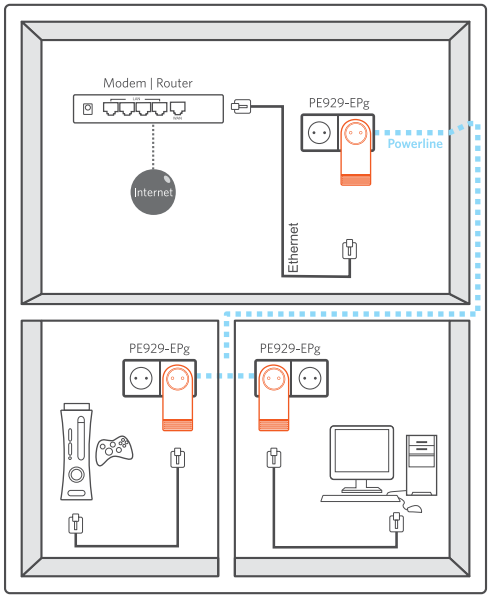
The GigaFast HomePlug AV mini Ethernet Bridge with Pass Thru operates on the HomePlug Powerline AV specification standard, providing up to 200Mbps bandwidth over home AC wiring. This PE929-EPg is the smallest HomePlug pass thru bridge with noise filtering power socket in the market! This PE929-EPg has a built-in AC socket with noise filtering feature. As a result, another device needing power can be plugged into the AC socket on this PE929-EPg without taking up another wall socket. The built-in noise filter effectively reduces noise interference from the device plugged into the PE929-EPg's pass thru socket, thus improving its network bandwidth performance. 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 PE929-EPg 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.

Like all of our HomePlug AV products, this PE929-EPg is equipped with 128-bit AES security encryption. Combining the private home power grid and the 128-bit AES security encryption, this PE929-EPg is extremely secure compared to other technologies such as WiFi network.

Features

- Stand-alone unit attaches directly to Broadband device and home power line network for seamless integration
- No new wire approach
- Up to 200Mbps PHY data rate on power line
- Pass-thru socket with filtering
- Available plug types for US, UK, France, Germany, Switzerland, and Italy
- Security push button

Application



Specifications

Main Chipset	Broadcom BCM60321
Computer Interface	IEEE802.3 IEEE802.3u
Standards	HomePlug AV
Network Interface	One 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 EU / UK / US specifications
Pass Thru	12A max. load
Housing	Plastic (121.7mm x 56.3mm x 39.3mm)
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: solid / blinking / off
Certifications	HomePlug AV Powerline certification FCC Class B / CE mark

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