

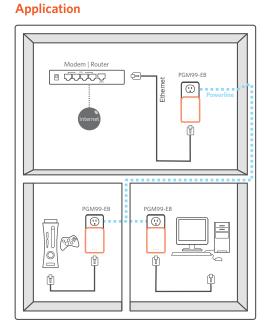
G.hn Ethernet Model Number: PGM99-EB

Marvell G.hn (2Gbps) > Ethernet Bridge with MIMO

The GigaFast Marvell based G.hn 2Gbps Ethernet Bridge operates on the ITU Powerline G.hn standard, providing up to 2Gbps bandwidth over home AC wiring. PGM99-EB is one of the smallest Marvel G.hn 2Gbps Ethernet Bridge designs on the market. The PGM99-EB uses Marvell's 88LX5152 chipset which is optimized for streaming high definition media applications. The 88LX5152 includes a faster procesor, high speed interfaces and is paired with the 88LX2720 analog front end (AFE). With these added high performance Wave 2 based abilities, the PGM99-EB is perfect for ultra-high speed HD entertainment networks in homes and is perfect for areas that are hard to reach via wireless conneciton. With a plug and play installation, you can easily combine all of your G.hn 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 an electrical power outlet will have easy access to high-speed Internet.

Like all of our G.hn products, this PGM99-EB is equipped with 128-bit AES security encryption. Combining the private home power grid and 128-bit AES security encryption, this PGM99-EB is extrememly secuire compared to other technologies.





Features

- Marvell 88LX5152 / 88LX2720 chipset
- ITU G.hn Powerline standard
- Up to 2Gbps PHY rate
- First MIMO based on G.9977 boosting PLC throughput
- State of the art LDPC Forward Error Correction as adopted by ITU G.hn
- Integrated Power saving
- Neighboring Networks Multi-Network interference mitigation
- 8 priority level QoS
- Embedded IPv4/IPv6 dual TCP/IP stacks, TR-069, IEEE1905.1a

Specifications

Modulation Schemes

Frequency Band

Main Chipset Marvell 88LX5152 / 88LX2720

Computer Interface IEEE802.3 (10BASE-T)

IEEE802.3u (100BASE-T)

IEEE802.3ab (1000BASE-T)

Standards ITU Powerline G.hn

Network Interface One RJ-45 (10/100/1000Base-T Ethernet) One 2Gbps power line port with MIMO

128-bit AES link encryption with key management Security

2Gbps over Powerline and 10/100/1000 Mbps over Ethernet Data PHY Rate

OFDM, FEC, Flexible frequency configuration

Additional Protocols 802.1Q VLAN, QoS, IGMP(IPv4) Snooping, MLD (IPv6)

> Snooping, Built-in dual TCP/IP stack (IPv4/IPv6) Estimated range of 300 meters in wall power lines

Operation Range 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)

100 ~ 240V @ 50/60Hz internal Power Input **Power Connector** Embedded US / EU / UK / AU specifications

Plastic (79mmx64mmx38mm) Housing Management HTTP Web Based Management Optional TR-069 Support

Firmware upgrade via TFTP

Status Lights Power: on / off

PLC link: red / orange / green / off Ethernet link: solid / blinking / off

Certifications FCC Class B / CE mark