



HD-PLC Ethernet

Model Number: PS928-HB

## HD-PLC (240Mbps) > Ethernet Bridge

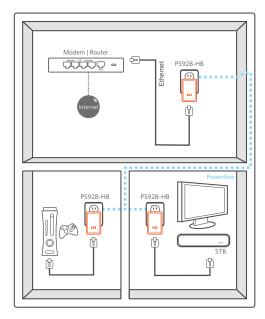
The GigaFast Megachips-based Ethernet Bridge operates on the HD-PLC standard, enabling Ethernet connectivity through home AC wiring. The PS928-HB is a highly integrated HD-PLC device, featuring MegaChip's latest MLKHN1501 chipset optimized for data applications. An optional RS485 interface supports RS485 over PLC using the HD-PLC standard. With its plug-and-play installation, the PS928-HB easily connects to routers, set-top boxes, IP Cameras, or computers.

When combined with a broadband DSL/Cable connection, every room with an electrical power outlet gains convenient access to high-speed Internet. Our PS928-HB, like all our HD-PLC products, is equipped with 128-bit AES security encryption, ensuring exceptional privacy and security.

Furthermore, this device can be configured for repeating to extend coverage for wide area network applications.



## **Application**



## **Features**

- MegaChips MLKHN1501
- Up to 1024 nodes
- HD-PLC / Ethernet / RS485
- Data rate up to 10Mbps (UDP/10 hops)
- Range up to 10km with 10 hops

## **Specifications**

Security
Data PHY Rate

Cabling

Humidity

Housing

Power Input Power Connector

Status Lights

Modulation Schemes

Operating Temperature

Storage Temperature

Frequency Band

Operation Range

Main Chipset MegaChips MLKHN1501

10/100M Fast Ethernet controller

Standards IEEE1901 / HD-PLC

Interface One RJ-45 (10/100BASE-T Ethernet)

One 240Mbps Power line

128-bit AES link encryption with key management

240 Mbps over Powerline

Wavelet OFDM 2 ~ 28Mhz

Estimated range of 300 meters in wall power lines

Cat. 5 UTP Cable

-40°C to 85°C ambient temperature -40°C to 85°C ambient temperature 10 to 90% maximum (non-condensing)

100 ~ 240V @ 50/60Hz internal

Embedded US / EU / UK / AU specifications

Plastic (86mm x 55mm x 27mm)

Power: on / off

PLC link: red / orange / green / off

PD Link: green / off

