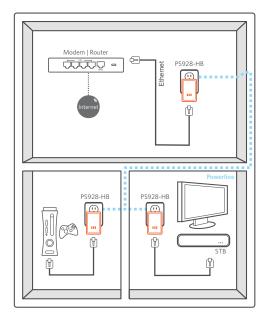## HD-PLC (240Mbps) > Ethernet Bridge

The GigaFast Megachips based Ethernet Bridge operates on the HD-PLC standard, providing Ethernet over home AC wiring. The PS928-HB is one of the most integrated HD-PLC devices on the market. The PS928-HB uses MegaChip's latest MLKHN1501 chipset which is optimized for data applications.   An optional RS485 interface can be used for RS485 over PLC using the HD-PLC standard. With a plug and play installation, you can easily use the PS928-HB to connect to a router, set-top box, IP Camera, or computer. 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 HD-PLC products, this PS928-HB is equipped with 128-bit AES security encryption. Combining the privacy of a home power grid and 128-bit AES security encryption, this PS928-HB is extrememly secuire compared to other technologies.

This device can also be configured for repeating to cover wide area network applications.

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

Application

Specifications

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
Security	128-bit AES link encryption with key management
Data PHY Rate	240 Mbps over Powerline
Modulation Schemes	Wavelet OFDM
Frequency Band	2 ~ 28Mhz
Operation Range	Estimated range of 300 meters in wall power lines
Cabling	Cat. 5 UTP Cable
Operating Temperature	-40°C to 85°C ambient temperature
Storage Temperature	-40°C to 85°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 (86mm x 55mm x 27mm)
Status Lights	Power: on / off
	PLC link: red / orange / green / off
	PD Link : green / off

HD-PLC   **MegaChips**