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 extremely secure 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

**Specifications**
- Main Chipset: MegaChips MLKHN1501
- Standards: 10/100M Fast Ethernet controller
- Interface: IEEE1901 / HD-PLC
- 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