

HD-PLC (240Mbps / 10Mbps Repeating) > Ethernet Bridge

The GigaFast Ethernet Bridge, based on the advanced Socionext technology, operates on the cutting-edge HD-PLC standard, which enables Ethernet over home AC wiring. The PE922-SB stands out as one of the most integrated HD-PLC devices available on the market today, utilizing Socionext's latest SC1320A chipset, which has been optimized for data applications.

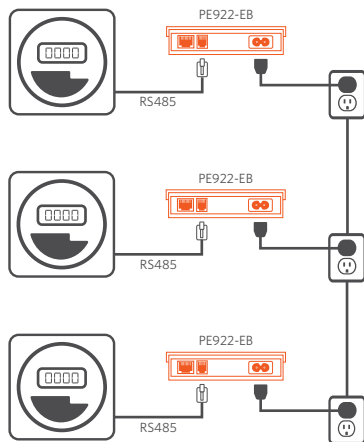
The PE922-SB can be easily integrated into existing industrial networks to provide secure, high-speed connectivity across multiple locations. Its optional RS485 interface enables RS485 over PLC, providing even more flexibility for industrial applications.

The device's ability to function as a repeater makes it an optimal choice for creating a seamless network across a large industrial space. Furthermore, the PE922-SB's 128-bit AES security encryption ensures secure and reliable data transmission, making it an excellent choice for industrial environments that demand high-security standards.

Overall, the GigaFast PE922-SB Ethernet Bridge is a versatile and reliable device suitable for both residential and industrial applications. Its advanced technology, plug-and-play installation, and robust security features make it an optimal choice for any environment.



Application



Features

- Socionext SC1320A
- Support up to 1024 nodes
- Range up to 10km with 10 hops (repeating mode)
- Data rate up to 10Mbps (UDP/10 hops/repeating mode)
- HD-PLC / Ethernet / RS485 bridge
 - Ethernet to PLC to Ethernet
 - RS485 to PLC to RS485
- High noise immunity (0dB)
- 0.2W Low power
- Supports IPv4/IPv6
- Operating Temp from -40°C to +85°C

Specifications

Main Chipset	Socionext SC1320A
Computer Interface	IEEE802.3 (10BASE-T) IEEE802.3u (100BASE-T)
Standards	IEEE1901 / HD-PLC
Network Interface	One RJ-45 (10/100BASE-T Ethernet) One 240Mbps Powerline
Security	128-bit AES link encryption with key management
Data PHY Rate	240Mbps over Powerline 10/100Mbps over Ethernet
Modulation Schemes	Wavelet OFDM
Frequency Band	2-28 Mhz
Additional Protocols	CSMA/CA channel access scheme
Cabling	Cat. 5 UTP cable
Operating Temperature	-40°C to +85°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
Housing	Plastic (113 mm x 76mm x 23 mm)