



BRIDGIT™ HD-PLC ADAPTER

Making IEEE1901-2020 Evaluation Easier for Your Next Smart IoT Application

Accelerate Your HD-PLC Evaluation

Benefits

- ✓ Preconfigured for easy setup and configuration
- ✓ Includes all hardware accessories, software tools, and documentation
- ✓ Bridges Ethernet and/or RS485 over any wired media
- ✓ Configurable frequency band between 500KHz to 56MHz
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- ✓ Includes SW tools to set up, configure, and update firmware
- ✓ Real-time network analysis and troubleshooting tool is included

What is included

- ✓ 12VDC Power Supply
- ✓ Mating connectors for PLC and RS485
- ✓ NetworkManager PC Software + Manual
- ✓ BRIDGIT HD-PLC Adapter User Guide
- ✓ Streamer firmware
- ✓ Hopper Firmware

Product Overview

- ✓ The BRIDGIT™ HD-PLC Adapter is a complete Ethernet bridge designed to evaluate HD-PLC technology and its performance under various lab and field conditions quickly and easily.
- ✓ The BRIDGIT™ HD-PLC Adapter has everything you need to test Ethernet and/or RS485 over power lines or twisted-pair wiring right out of the box.



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NetworkManager Software

Real-Time Network Analysis and Troubleshooting Tool



Features

- ✓ Microsoft® Windows® 10 Professional
- ✓ Display Network Topology Automatically
- ✓ Monitor HD-PLC Devices on the Network
- ✓ Configure HD-PLC Devices on the Network
- ✓ FW Upload/Updates
- ✓ Acquisition/Display the TX/RX PHY Rate
- ✓ Acquisition/Display of CINR
- ✓ Acquisition/Display of AGC Gain
- ✓ Acquisition/Display of Static Transmission Information
- ✓ Wave CINR Function



One Design, Two Unique Versions

HOPPER	SPRINTER
Speeds up to 320Mbps (PHY)	Speeds up to 500Mbps (PHY)
Supports up to 1024 nodes	Supports up to 128 nodes
Free Topology / 10-hop MESH / Repeater CSMA/CA/CMSR	Point-to-Point, STAR, BUS, ring TDM/DVTP
FEC: RS/CC, LDPC	FEC: RS/CC, LDPC
Command and Control of Remote Devices	HD video transmission and local area networks (LAN)

BRIDGIT™ HD-PLC Adapter comes in two versions, “Hopper” and “Sprinter”. Hopper is designed for long-range communication whereas Sprinter is for high-speed communication.

Hopper includes Centralized Metrics Source Routing (CMSR) adding another layer of robustness by enabling any node to act as a repeater extending the range and connectivity.

In addition, BRIDGIT™ HD-PLC Adapter offers an integrated on-board 800-Ohm RX impedance circuit mainly used in BUS network configuration, and a 200-Ohm version for Free Topology networks to further optimize system performance.

Single Solution for Every IoT Application

BRIDGIT™ HD-PLC Adapter supports flexible frequency band using Flexible Channel Wavelet (FCW) Technology

Users can select between the available channels for optimum throughput and range based on their application and line conditions.

MODE	FREQUENCY BAND (MHz)	PHY SPEED (Mbps)*	RANGE (m)*
X 2	4 - 56	500	700
X 1	2 - 28	240	1,000
X 1/2	1 - 14	120	1,400
X 1/4	0.5 - 7	7 60	2,000

* Under ideal conditions.

Order Your Evaluation Kit Today

Get the hardware, software, and documentation you need to easily set-up and evaluate the HD-PLC system performance.

