



OVERVIEW

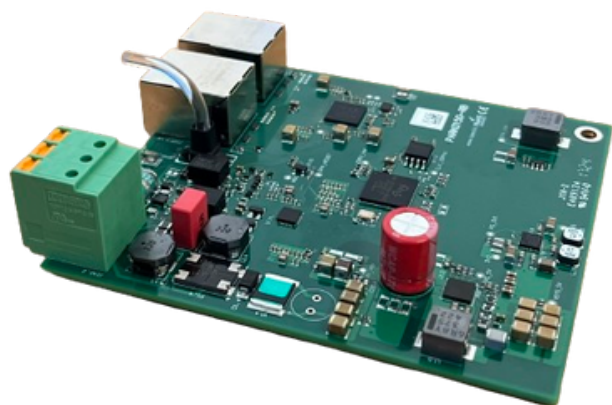
G.hn Wave-2 Powerline Communication

The LineWave 1500 offers an easy way to work with the G.hn network solution based on power-line communication (PLC).

This technology consists of using the power lines of any installation to transport information signals, this is possible thanks to MaxLinear's Wave-2 Digital Baseband processor and Analog Front End ICs.

LineWave 1500 is a multi-media, multi-interface G.hn industrial IoT module. It combines the G.hn transceiver solution with one Vishay regulators, a pre-programmed 3-output PMIC from MaxLinear and Texas regulator these regulators are responsible for supplying power to the module.

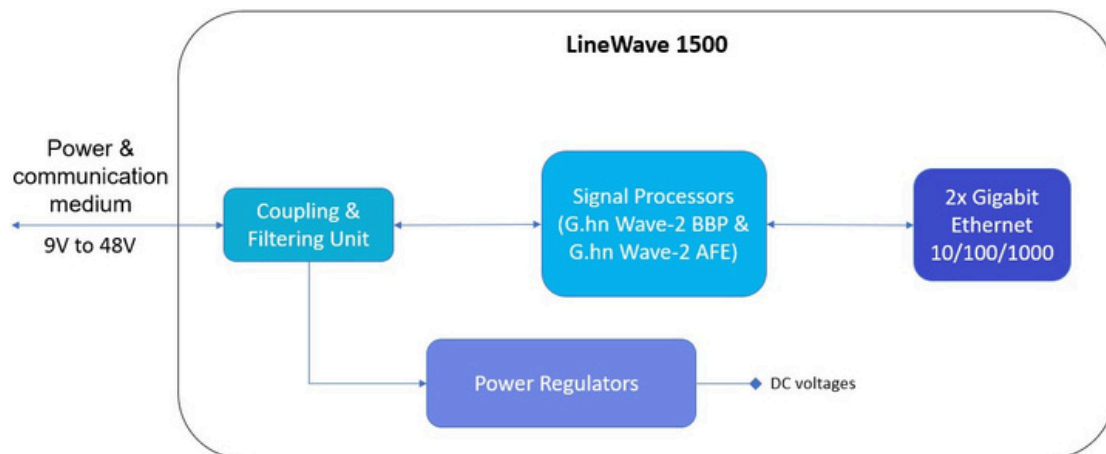
To manage the communications this module has a Gb Ethernet switch.



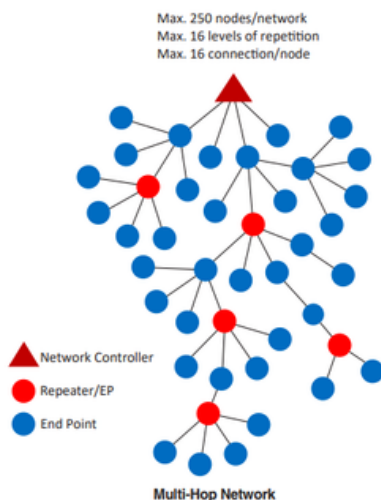
TECHNICAL SPECIFICATIONS

Digital Baseband	MaxLinear G.hn Wave-2 digital baseband processor (88LX5153)
Analog Front End	MaxLinear G.hn Wave-2 analog front end (88LX2741)
Memory	RAM: Integrated DDR3 Flash: 32Mb SPI
Network	Ethernet: 2x 10/100/1000 Mbps
External Interfaces	Buttons: Reset and Configuration Led: Communication status
OS Support	Firmware: Wave-2 G.hn Spirit
Power Supply	Power connectors: From 12 V to 48 V
Thermal	Industrial temperature: -40°C to +80°C
Dimensions	Size: 96,70mm x 86,26mm

BLOCK DIAGRAM



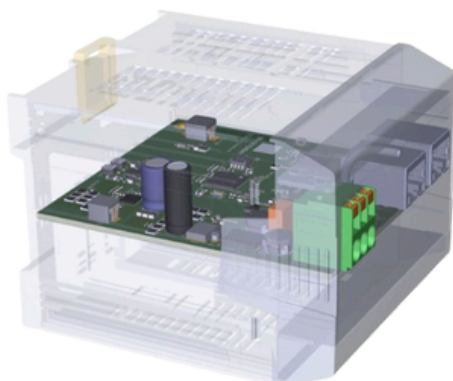
Wave-2 G.hn SPIRIT GRID



G.hn Spirit Grid software supports a large-scale, multi-hop network of up to 250 nodes in a single network domain. Spirit Grid's self-organize-network (SON) feature enables autonomous device installation and configuration, optimal signal path selection, and network self-healing capabilities.

It can also auto-configure the client to simultaneously perform the repeating function, which eliminates the need for a dedicated repeater that is typically needed by other broadband powerline technologies.

PLUG & PLAY INSTALLATION



In order to facilitate and reduce the installation time and to make the equipment adaptable to any environment where you decide to install this solution.

ISEE offers the possibility to encapsulate the equipment inside Custom DIN Rail Enclosure that facilitates the adaptation inside any power supply cabinet.

APPLICATIONS

G.hn Wave-2 powerline, twisted pair,
or coaxial cable networking.

Smart elevator control.

Fire alarm control panel.

Smart parking system control.

Smart fuel dispenser system.

Building entry/access control.

Building security and surveillance.

Smart building data backbone.

ORDERING INFORMATION

Model	Reference	Description
IGEP PLC G.hn Wave-2	LineWave 1500	Power line communication G.hn Wave-2 mixer, Ethernet x2.



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