



OVERVIEW

G.hn Wave-1 Powerline Communication



PLC (Power-line communication) is based on digital modulation to improve bandwidth and range according to criteria of industrial application. This technology consists of using the lines of potency of an any installation to transport signs of information.

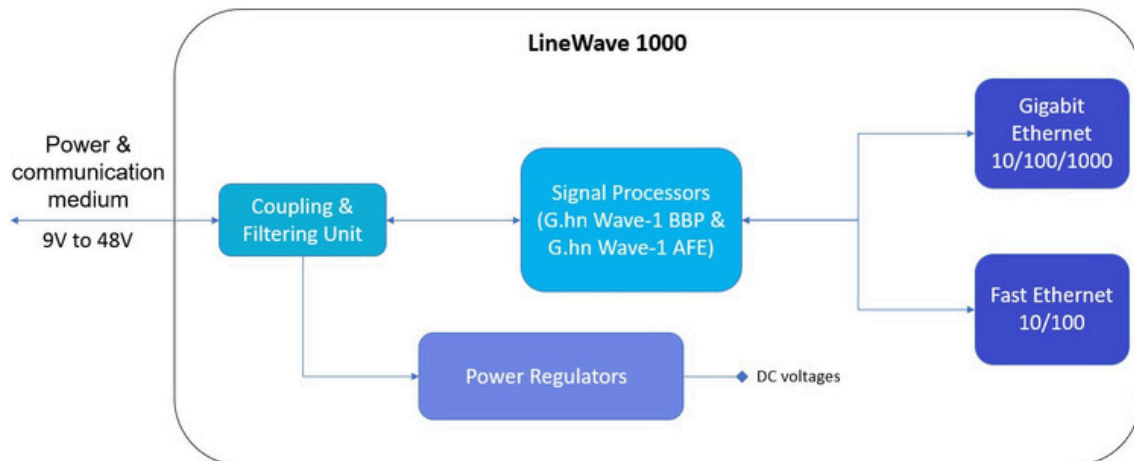
Our device user DC power line to realize this transport, direct current DC is the most used in the industrial, lightning and solar applications.

All this will provide a few bands of up to 600 Mbps (megabits per second) and scopes up to a distance of 300 meters, which will cover better the current needs on the market.

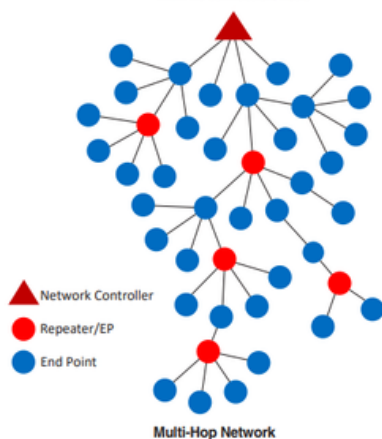
TECHNICAL SPECIFICATIONS

Digital Baseband	MaxLinear G.hn Wave-1 digital baseband processor (88LX3142)
Analog Front End	MaxLinear G.hn Wave-2 analog front end (88LX2718)
Memory	RAM: Integrated DDR2 Flash: 32Mb SPI
Network	Ethernet: 1x 10/100 Mbps 1x 10/100/1000 Mbps
External Interfaces	Buttons: Reset and Configuration Led: Communication status
OS Support	Firmware: Wave-1 G.hn Spirit
Power Supply	Power connectors: From 9 V to 48 V
Thermal	Industrial temperature: -40°C to +80°C
Dimensions	Size: 86mm x 68mm

BLOCK DIAGRAM



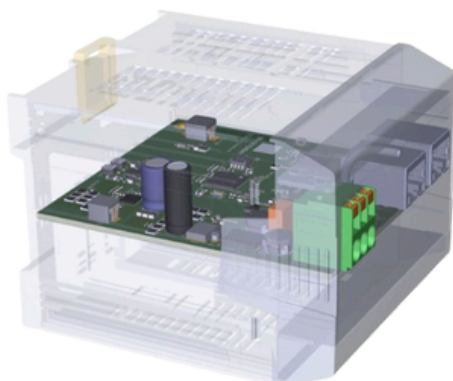
Wave-1 G.hn SPIRIT GRID



G.hn Spirit Grid software supports a large-scale, multi-hop network of up to 10 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-1 powerline, twisted pair,
or coaxial cable networking.

Stand Alone.

Embedded applications.

Smart parking system control.

Solar system.

Building entry/access control.

Building security and surveillance.

Smart building data backbone.

ORDERING INFORMATION

Model	Reference	Description
IGEP PLC G.hn Wave-1	LineWave 1000	Power line communication G.hn Wave-1 mixer, Ethernet x2.



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