

# GPE2001 G.hn Powerline to Ethernet extender

## Plug-in format

### FEATURES

- Deliver gigabit broadband data services around the home using the in-home electrical circuits (Powerline Communications – PLC) to Ethernet connected devices
- Second generation G.hn Wave 2 chipset up-to 1.2Gbps PHY rates over the powerline connection delivers the full 1Gbps through the Ethernet port
- Typical application throughput of 350~500Mbps (up to 941Mbps)
- Lower latency than a typical wireless connection , ideal for gaming
- Filtered pass-through electrical socket, preserving the number of outlets and protecting connected device from line noise
- Remote monitoring and management via TR-069
- Available with USA electrical plugs (other countries could be supported subject to further development)
- HomeGrid™ Forum Certified



### PRODUCT OVERVIEW

The GPE2001 Extender delivers gigabit data to any location in the home, or small business, where there is an electrical socket. The network interconnection is via Powerline Communications (PLC) using the G.hn Wave 2 standard as specified by the HomeGrid™ Forum. These single-port Ethernet bridges have a Gigabit Ethernet port to connect your PC, gaming device or other Ethernet connected device. Up to 16 extenders may be used on a single home network.

Each G.hn Bridge mounts in any AC power outlet in the home and includes a filtered AC power socket to provide clean power to an extra device, so the device does not reduce the number of sockets available to the consumer. The outlet should not be used for extension cords or powerstrips.

Each G.hn Bridge includes a TR-069 client for link metric monitoring as well as diagnostics and configuration by a remote Access Control Server.

## SPECIFICATIONS

### Filtered AC Pass-through Outlet

15 Amps Maximum

### G.hn PLC

G.hn ITU-T G.hn baseband plans for 25.50, and 100 MHz + MIMO

G.hn Max Throughput 1 Gbps (941Mbps considering Ethernet limitation)

Encryption AES 128-bit

Modulation OFDM, FEC

Max G.hn Nodes 16

Network Awareness 250 domains

### Certifications

FCC Part 15B and 15C

UL/C-UL UL60950/cUL /CSA

ICES-003 2/1/2004

RSS-210, RSS-GEN Issue 2 6/1/2007

FCC Part 15 Classes B, C, and E RoHS / WEEE

Industry Canada ICES-003

HomeGrid G.hn PLC

### Accessories

Cat5e Ethernet cable

Quick Start Guide

## SPECIFICATIONS

### Physical

Enclosure White

Unit Size 4.61" x 2.36" x 1.38"  
117mm X 60mm X 35mm  
(excluding electrical prongs)

1 RJ-45 Ethernet port GigE, LAN

LEDs Front Panel / top to bottom:  
Power & Software Status, G.hn activity  
& Status, Ethernet activity & status,  
Security status

Operating Temperature 32 °F to 104 °F (0°C to 40°C)

Operating Relative Humidity 5-90% (non-condensing)

Storage Temperature -4 °F to 158°F (-20 °C to 70°C)

Unit Weight 5.2 oz (147.4g)

Local Area Network (LAN) One 10/100/1000 Base-T Ethernet  
RJ-45, autosensing, auto-mdix

Input Voltage 100VAC ~ 240VAC 50Hz/60Hz

### Interfaces

User Buttons Pairing button on front for G.hn  
Reset on bottom for factory default

### User Management

URL based GUI

## CUSTOMER CARE

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656