

GPW2200 G.hn Powerline to Wi-Fi extender

Plug-in, 2x2 802.11ac dual-band concurrent Wi-Fi

FEATURES

- Deliver Wi-Fi to every corner of the home, fill-in gateway dead-spots
- Dual-band 2x2 Wi-Fi access point, operation in 2.4Ghz & 5.2Ghz concurrently
- Interconnection around the home using the in-home electrical circuits (Powerline Communications – PLC)
- Second generation G.hn Wave 2 chipset up-to 1.2Gbps PHY rates over the powerline connection delivers the full 1Gbps through the single Ethernet port
- Lower latency than a typical wireless interconnect, ideal for gaming
- Simple, automated configuration using HNE (Home Network Extender) protocol for customer self-install
- Will interwork with HNC (Home Network Controller) enabled gateways for automated network optimization
- 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 GPW2200 Extender delivers Wi-Fi 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 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. The unit mounts in any AC power outlet in the home.

Each extender acts as a Wi-Fi access point operating in both 2.4GHz & 5GHz Wi-Fi bands concurrently. Interconnected to the gateway over powerline avoids the delays and potential capacity limitations associated with Wi-Fi repeaters.

The GPW2200 supports the HNE (Home Network Extender) protocol for automated configuration, enabling consumer self-install. The device will interwork with gateways enabled with the ARRIS Home Network Controller, to deliver automated home network optimization using functions such as band steering, access point steering etc.

The extender includes a TR-069 client for link metric monitoring as well as diagnostics and configuration by a remote Access Control Server.



SPECIFICATIONS

Wi-Fi Access Point

5.2Ghz band	802.11ac 2x2
2.4Ghz band	802.11n 2x2
	Concurrent operation

G.hn PLC

G.hn	ITU-T G.hn baseband plans for 25, 50 and 100 MHz + MIMO
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G.hn Max Throughput	1 Gbps (941Mbps considering Ethernet limitation)
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Encryption	AES 128-bit
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Modulation	OFDM, FEC
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Max G.hn Nodes	16
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Network Awareness	250 domains
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Certifications

FCC	Part 15B and 15C
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UL/C-UL	UL60950/cUL /CSA
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ICES-003	2/1/2004
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RSS-210, RSS-GEN Issue 2	6/1/2007
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FCC Part 15 Classes B, C, and E	RoHS / WEEE
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Industry Canada ICES-003	
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HomeGrid G.hn PLC	
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Accessories

Cat5e Ethernet cable	
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Quick Start Guide	
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SPECIFICATIONS

Physical

Enclosure	White
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Unit Size	6.10" x 3.07" x 1.61" 155mm X 78mm X 41mm (excluding electrical prongs)
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1-RJ-45 Ethernet port	GigE, LAN
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LEDs	Front Panel / top to bottom: Power & Software Status, G.hn activity & Status, Ethernet activity & status, Security status
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Operating Temperature	32 °F to 104 °F (0°C to 40°C)
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Operating Relative Humidity	5-90% (non-condensing)
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Storage Temperature	-4 °F to 158°F (-20 °C to 70°C)
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Unit Weight	7.4 oz (209.8g)
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Local Area Network (LAN)	One 10/100/1000 Base-T Ethernet RJ-45, autosensing, auto-mdix
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Input Voltage	100VAC ~ 240VAC 50Hz/60Hz
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Interfaces

User Buttons	Pairing Button on front for G.hn Pairing Button on bottom for Wi-Fi Reset on bottom for factory default
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User Management

URL based GUI	
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CUSTOMER CARE

Contact Customer Care for product information and sales:

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