advanced media technologies®

MODEL

GPW2200

G.hn POWERLINE TO WI-FI EXTENDER, PLUG-IN, 2X2 802.11AC DUAL-BAND CONCURRENT WI-FI

ARRIS

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 2.4Ghz band	802.11ac 2x2 802.11n 2x2 Concurrent operation
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	6.10” x 3.07” x 1.61” 155mm X 78mm X 41mm (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	7.4 oz (209.8g)
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 Pairing Button on bottom for Wi-Fi Reset on bottom for factory default
User Management	
URL based GUI	