



## AGhn-260R Repeater

An outdoor BPL modem for electrical cabinet to provide real-time reporting, management and performance test of PLC Defidev products Suite.

The Defidev **AGhn-260R** is a powerline Ethernet adapter compliant with the ITU-T G.hn networking standard. It provides the best quality data transmission for the truly high-speed 'connected home' experience. It allows users to extend a local area network via existing power lines, eliminating the need for extra wiring. Installation at home (or in a small office) is quick and easy as the AGhn-260R comes with plug-and play technology..

End users or installers can connect their IP devices such as PC, Media Centers, Controllers... using Defidev powerline products

The AGhn-260R supports MIMO operation and can be used with two fully programmable reception and transmission paths to attain up to 1Gbps PHY throughputs. The AGhn-260R comes pre-configured allowing easy installation / configuration and it features secure end-to-end encryption algorithms for safeguarding the network integrity.

It also supports advanced energy-saving features based on Ethernet link activity, with automatic standby mode. The AGhn-260R is used to manage data and remote command securely via Internet or any WAN network. It acts as a gateway for the flow of data (customer and management), organizes and transmits it according to its router configuration. By managing the flow data, the AGhn-260R allows the NxNMS (DefiDev Management Software) to display meaningful reports, graphs, status and analysis for the entire powerline network. The AGhn-260R can also receive commands from the NxNMS. These commands include changing operational settings.

The AGhn-260R is easy to install within a network. It can work with a public routable IP address or on a private network with or without VLAN.

### Key Features

- Easy to install PNP
- Physical data rates up to **350 Mbps** MIMO
- 802.1 X
- Supports 802.1q VLAN
- SNMP V3 TSM compliant
- AC Power
- Supports 802.1q VLAN

The AGhn-260R provides powerline/WLAN access to end-user by sharing a simple AC powerline network. It also provides a router to manage all data coming from PLC and Ethernets.

The AGhn-260R is a convenient way to create a simple network through the existing electrical wiring of a home or office with the additional ability to provide you with access to your network without wires. Offering two levels of security, the AGhn-260R is built with AES encryption for the Powerline pass-through so your data will always be secured.

## Overview

- Easy Set-up & Installation
- AES Encryption ensures a Secure Wireless Network
- Bridge Forwarding Table for 1024 MAC Addresses
- 10/100/1000BaseT Ethernet interface
- WIFI router access point (optional)
- Remote configuration
- 802.1Q VLAN & Optimized VLANs
- Integrated 802.1D Ethernet Bridge with optimized Spanning Tree Protocol
- Priority classification according to 802.1P tags
- Programmable priority-classification engine (8-level priority queues)

## Technical Specifications

|                                        |                                                               |
|----------------------------------------|---------------------------------------------------------------|
| <b>Dimensions (mm)</b>                 | 134x104x44 mm                                                 |
| <b>Weight</b>                          | 0.2 kg                                                        |
| <b>Input voltage</b>                   | 100Vac-240Vac                                                 |
| <b>Input frequency</b>                 | 60Hz – 50Hz                                                   |
| <b>Modulation</b>                      | OFDM MIMO                                                     |
| <b>Number of carriers</b>              | Up to 3200                                                    |
| <b>Frequency range</b>                 | 2MHz – 50MHz                                                  |
| <b>Backbone Speed</b>                  | Up to 350 Mbps on PLC physical layer,<br>1000Mbps on Ethernet |
| <b>Chipset MaxLinear</b>               | 88LX5152                                                      |
| <b>Available configuration</b>         | DM/EP                                                         |
| <b>Protocol supported</b>              | TCP/IP-DHCP-TFTP-SNMPv3-SSH                                   |
| <b>Standards Compliance</b>            | IEEE 802.3u, 802.3ab, 802.1P, 802.1Q                          |
| <b>Interface</b>                       | direct Powerline, ethernet, RS-485                            |
| <b>Interface routed</b>                | PLC, Ethernet                                                 |
| <b>Number of supported MAC address</b> | 1024                                                          |
| <b>Number of supported PLC nodes</b>   | 250                                                           |

