



AheS-2x0m Head-End

A station BPL gateway to provide real-time reporting, management and performance test of PLC Defidev products Suite.

The Defidev AheS-2x0m 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 AheS-2x0m 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 AheS-2x0m supports MIMO operation and can be used with two fully programmable reception and transmission paths to attain up to 1Gbps PHY throughputs. The AheS-2x0m 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 AheS-2x0m 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 AheS-2x0m allows the NxNMS (DefiDev Management Software) to display meaningful reports, graphs, status and analysis for the entire powerline network. The AheS-2x0m can also receive commands from the NxNMS. These commands include changing operational settings.

The AheS-2x0m 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
- AC Power
- Physical data rates up to 350 Mbps MIMO
- 802.1 X
- Supports 802.1q VLAN
- SNMP V3 TSM compliant
- WIFI Router embedded

The AheS-2x0m 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 AheS-2x0m 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 AheS-2x0m 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
- 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

Dimensions (mm)	147x139.5x45 mm
Weight	0.5 kg
Input voltage	100Vac-240Vac
Input frequency	60Hz – 50Hz
Modulation	OFDM MIMO
Number of carriers	Up to 3200
Frequency range	2MHz – 50MHz
Backbone Speed	Up to 350 Mbps on PLC physical layer, 1000Mbps on Ethernet
Chipset MaxLinear	88LX5152
Available configuration	DM/EP
Protocol supported	TCP/IP-DHCP-TFTP-SNMPv3-SSH
Standards Compliance	IEEE 802.3u, 802.3ab, 802.1P, 802.1Q
Interface	direct Powerline, ethernet, RS-485
Interface routed	PLC, Ethernet
Number of supported MAC address	1024
Number of supported PLC nodes	250

