AheS-264
MV/LV Head End

A gateway server to provide real-time reporting, management and performance test of PLC Defidev products Suite with a WiFi interface.

TRADEMARK: DEFIDEV - Model N°: AheS-264, MHE/SHE, Uhe-264

The Defidev MV/LV Head End can be easily integrated into an existing MV/LV network infrastructure to create a communication backbone for internet access, access control and automation applications. The AheS-264 act as a Master Modem. It also provides a wireless interface to connect the Ahes-264 between them and thus create a wireless backbone network between different head ends.

The AheS-264 is used to manage data and remote command securely via Internet or any WAN network. It acts as a head end for the flow of data (customer and management), organizes and transmits it according to its router configuration. By managing the flow data, the AheS-264 allows the QTNMS (DefiDev Management Software) to display meaningful reports, graphs, status and analysis for the entire powerline network. The AheS-264 can also receive commands from the QTNMS. These commands include changing operational settings. The AheS-264 can also work standalone to manage its local powerline network of which it is the master.

The AheS-264 with its two integrated three-phase couplers and circuit breakers 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. The AheS-264 offers 5 RJ45 ports. In router mode, two ports are dedicated to the WAN access (ISP), two ports to LAN access and one port for the Administrator.
The AheS-264 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-264 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-264 is built with AES encryption for the Powerline pass-through so your data will always be secured.
It provides two different PLC connections and embedded physical filters remotely manageable.

Key Features

- On Site system server
- Easy to install
- Physical data rates up to 200 Mbps
- Full SNMP Management
- IP66 housing
- AC or DC Power
- Supports 802.1q VLAN
- Router embedded
- Physical filters remotely manageable
- WiFi 5GHz
- Two Integrated Three-phase couplers
- Integrated circuit breakers

Overview

- Easy Set-up & Installation
- AES Encryption ensures a Secure Wireless Network
- Bridge Forwarding Table for 1024 MAC Addresses
- 10/100BaseT Fast Ethernet interface
- 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)
- Integrated Wifi Board compliant with IEEE 802.11n standard and supports 5GHz frequency band
- Integrated router between WiFi and PLC network
- Two Integrated Three-phase couplers
- Integrated circuit breakers

Technical Specifications

Dimensions (mm)	400 x 300 x 180 mm
Input voltage	100Vac-240Vac or 48V DC
Input frequency	60Hz – 50Hz
Power Consumption	15 W
Modulation	OFDM
Number of carrier	1536
Frequency range	2MHz – 34MHz
Backbone Speed	Up to 200 Mbps on PLC physical layer, 100Mbps on Ethernet
Chipset DS2	DSS9503
Available configuration	HE/REP/CPE
Protocol supported	TCP/IP-DHCP-TFTP-SNMP
Standards Compliance	IEEE 802.3u, 802.1P, 802.1Q
Interface	2x AC Powerline- 5x10/100Mbps Ethernet Port
Wifi	IEEE 802.11n – 5GHz – AP or Client
Interface routed	PLC, Ethernet,Wifi
Number of supported MAC address	1024
Number of supported PLC nodes	15

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