Wi-NEXT

EVERYTHING CAN BE PART OF A NETWORK

N.A.A.W. CONNECT LONG RANGE

The most economical solution
for the creation of point-to-point links

NAAW
WI-NEXT TECHNOLOGY

N.A.A.W. Connect Long Range : the most economical solution for the creation of point-to-point links

N.A.A.W. Connect Long Range has been studied to allow the creation of point-to-point links, even for medium/long distance, on 5 Ghz frequency (802.11a).

Thanks to the 400mW (26 dBm) radio and the integrated 16 dBi antenna it is the ideal solution for:

- The connection of two building up to 10 km
- The long range connection to backbone

A complete and intuitive management interface

- Local interface for a simple and complete management
- 2 different setup configuration
  - **N.A.A.W. Mesh** (default): for the creation of wireless mesh networks totally automatic and autoconfigurable
  - **Bridge**: for the creation of traditional wireless networks
- Possibility to create and save customized configurations
- Restore functionality

An easy and fast installation

N.A.A.W. Connect devices has been studied to allow an easy and fast installation.
With few simple steps it is possible to aim the integrated antenna toward the origin of the signal activating the link.
N.A.A.W. Connect is able both to join a N.A.A.W. mesh network and a traditional wireless network working on 802.11a or 802.11b/g.

N.A.A.W. Software

Each device is equipped with N.A.A.W. software that allows to recognize the presence of other N.A.A.W. devices in the neighbourhood and automatically set up the network.
N.A.A.W. software allows also a simple integration with a traditional network: with few simple steps N.A.A.W. devices can be set up as nodes able to extend the coverage of an existing wireless network.

Features

Operating Modes

- NAAW Mesh
- Access points
- Client
- Repeater
- Wireless Adapter
- Wireless
- Wireless Routing Client
- Gateway

WAN Type

- Static IP
- Dynamic IP
- PPPoE

Device Management

- Web Server
- Telnet or Secure Shell (SSH)

Data Capture and notification

- Event Login (Syslog)
- Detailed Statistics per Client

Virtual Access Point (VAP)

- Up to 4 SSIDs with unique MAC Addresses (BSSID)
- 802.1q VLAN tag per VAP with Bridging
- Configurable Security (WEP, TKIP, AES, MAC Filtering) per VAP

Multiple SSID

- Supports up to 4 virtual access points (VAP) per radio, with unique BSSIDs. Traffic from each VAP can be tagged to a unique VLAN and /or bridged if required. Each VAP will be able to configure their own security (WEP, TKIP, and AES).

Advanced Features

- Built-in DHCP server + DNS forwarder
- Transmission Power Control (One dB per step)
- Closed System (Suppress SSID)
- Transmission Rate Control

Other Prominent Features

- Long Range Parameter Settings
- CPE Point-to-Point (PtP)
- Power with Passive PoE
- IEEE 802.11h (DFS & TPC) DFS (On/Off) Ability
- SNMP Trap (NO GUI)
- Antenna Control
- Antenna Allignment
- Bandwidth Control(Only in Routing Mode)

Technical specification

Dimension

- 257mm x 257mm x 86mm
- Weight : 1,2Kg.

Hardware Features

- Linux OS
- CPU AR7310 - 300 Mhz
- 32Mb SDRAM - 8 Mb FLASH RAM
- 1 Ethernet Port 10/100 Base-TX (with Auto MDI/MDIX)
- PoE IEEE 802.3af Standard PoE Compatible (High Power)

Integrated Antennas

- Bipolar directional antenna
- 16dBi@802.11/a 18°

Environment

- Operating temperature : from -20°C to +55°C
- Humidity : from 5% to 95%

Consumption

Name	Radio	Max Speed	Integrated Antennas	Radio OutPut	Max. Consumpt.
N.A.A.W. Connect Long Range	1x26dBm @ a	54Mbps	1x802.11 a	26 dBm @ a	6,5 W

Radio

Radio MiniPci Frequency 5.03-5.85Ghz

Output Power

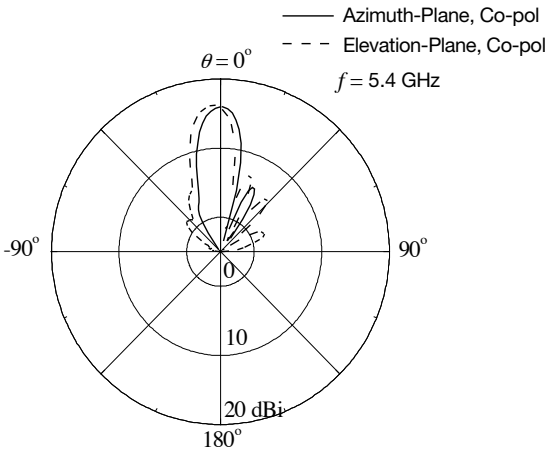
802.11a	6-24 Mbps	26 dBm
	36 Mbps	23 dBm
	48 Mbps	20 dBm
	54 Mbps	18 dBm

Receiver Sensitivity

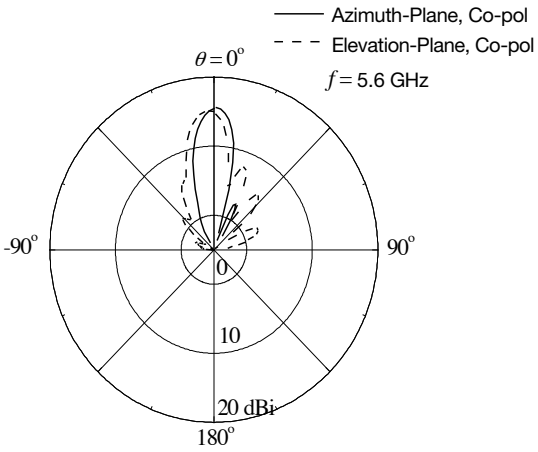
802.11a	6 Mbps	-90 dBm
	54 Mbps	-70 dBm

Antenna Polar Plots

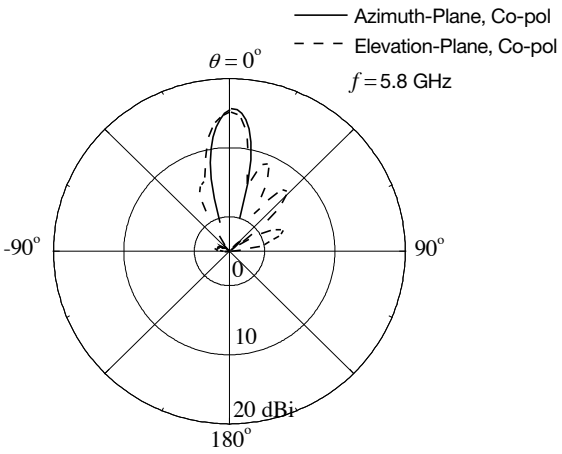
Antenna 5 Ghz



Antenna 5 Ghz



Antenna 5 Ghz



N.A.A.W. devices

We created four families of N.A.A.W. embedded devices which make N.A.A.W. based networks the best solution for any kind of wireless coverage, from wide geographical areas to domestic and business networks.

N.A.A.W. Enterprise

The new generation wi-fi mesh devices for the creation of wide wireless networks

N.A.A.W. Xtend

The most flexible and economic solution for the extension of the coverage of a geographical network and the creation of outdoor hot spot.

N.A.A.W. Connect

The best wi-fi mesh device for the connection of a house or an office to a wireless network in an easy and fast way

Naawigo

The power, reliability and easy o fuse of N.A.A.W. technology for the creation of wireless mesh indoor network for a house or an office.

Management software

The possibility to control the networks and the access is a key condition for the creation of a solid and reliable network; for this reason we created a suite of online tools allowing an easy and intuitive the management of your network.

Herdboy

The real time web-based system for the management of the nodes of the network

Doorman

The completely customizable access portal to control and manage the users of your network.