NFT 2N

High performance dual-radio indoor AP

INFINITY

NFT 2N

The Infinity NFT 2N is a high-performance dual-radio access point from LigoWave, equipped with two 3x3 MiMo 802.11N radios operating in the 2.4 and 5 GHz bands concurrently. A dedicated Qualcomm Atheros AR9558 CPU (700 MHz) makes this access point ideal for faster connectivity and high capacity demanding applications (450 Mbps radio rate). The 802.3at power over Ethernet standard supports easy and quick deployment using PoE switches.

OS

The dual-radio indoor access point runs the Infinity OS - a highly functional and easy to use operating system. This powerful and flexible operating system ensures flawless operation of LigoWave hardware devices and effortless setup for those deploying the networks.

- Responsive HTML 5 based GUI
- 256 concurrent clients
- 16 virtual networks (SSID+VLAN)
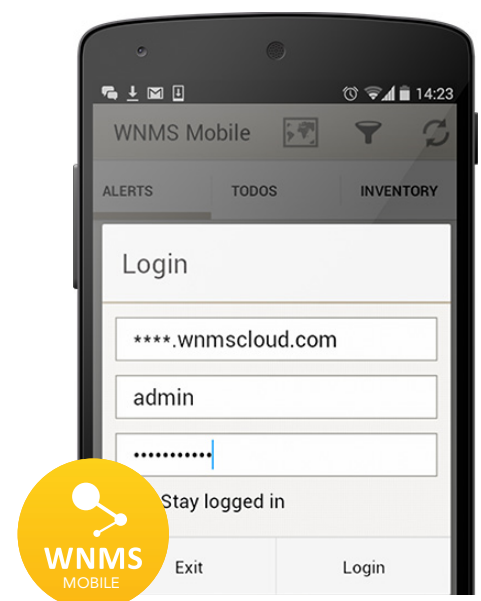- IPv6 support
- WNMS compatible

WNMS

WNMS is a FREE enterprise grade Wireless Network Management System. A single software solution simplifies a large number of management and monitoring tasks for the network administrator. LigoWave's comprehensive network management system supports several thousand of nodes. Multiple networks may be maintained and monitored using one server. A rich feature set helps to diagnose network problems effectively, visualize networks on a map, perform scheduled firmware upgrades automatically, track states of devices, get failure alerts, and collect statistics. The Web-based system environment supports multi-user accounts. Several administrators can manage different networks on the same server, without having access to each other's equipment. WNMS is available as a stand-alone version for Linux and Windows servers, as a cloud-based system and as a mobile application for Android devices.

WNMS MOBILE

WNMS Mobile is an Android based client application for devices monitored by a WNMS (Wireless Network Management System) server. WNMS Mobile is designed for network operating center coordinators, maintenance staff, and support engineers.

- Responsive HTML 5 based GUI
- Lists the availability of networks and devices
- Marks each device location on a map
- Registers the device into WNMS. The application can use the coordinates from the Android device
- Lists all device alerts
- Allows ToDo list for each user
- Notifies responsible person through push notification service when task is assigned, reassigned, completed or rejected

Specifications

Wireless

WLAN standard	IEEE 802.11 a/b/g/n
Radio mode	MIMO dual 3x3
Operating mode	Access point
Radio frequency band	2.402 - 2.484 GHz (country dependent) FCC 2.412 - 2.462 GHz (CH1-CH11)
	5.170 - 5.875 GHz (country dependent) FCC 5.745 - 5.825 GHz (CH149-CH161)
Transmit power	2.4 GHz: 20 dBm @ MCS23 (FCC Max certified TX power: 25dBm)
	5 GHz: 20 dBm @ MCS23 (FCC Max certified TX power: 23.5dBm)
Channel size	20, 40 MHz
Modulation schemes	802.11 a/g/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
	802.11 b: DSS (CCK, DQPSK, DBPSK)
Data rates	802.11 n @ 40 MHz: 450, 405, 360, 270, 180, 135, 90, 45 Mbps
	802.11 a/g @ 20 MHz: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
	802.11 b @ 20 MHz: 11, 5.5, 2, 1 Mbps
Duplexing scheme	Time division duplex
Wireless security	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL

Antenna

Type	6x internal omni-directional antennas
Gain	2.4 GHz: 3 dBi
	5 GHz: 3 dBi
Coverage radius	100 meters (328 ft)

Wired

Interface	10/100/1000 Base-T, RJ45

Networking

Operating mode	Bridge
Management IPv4	Static, dynamic
Management IPv6	Static, dynamic stateless, dynamic stateful
Secondary IPv4	Supported
VLAN	802.1Q for management and data
Virtual SSID	8 per each radio
Client isolation	Supported

Services

Services	SNMP server, NTP client, WNMS client

Power

Power method	802.3af with passive PoE (48V) support; additional 12V DC input
Power supply	100 – 240 VAC to 48 VDC PoE (included)
Power consumption (max)	8 W

Management

System monitoring	SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap

Physical

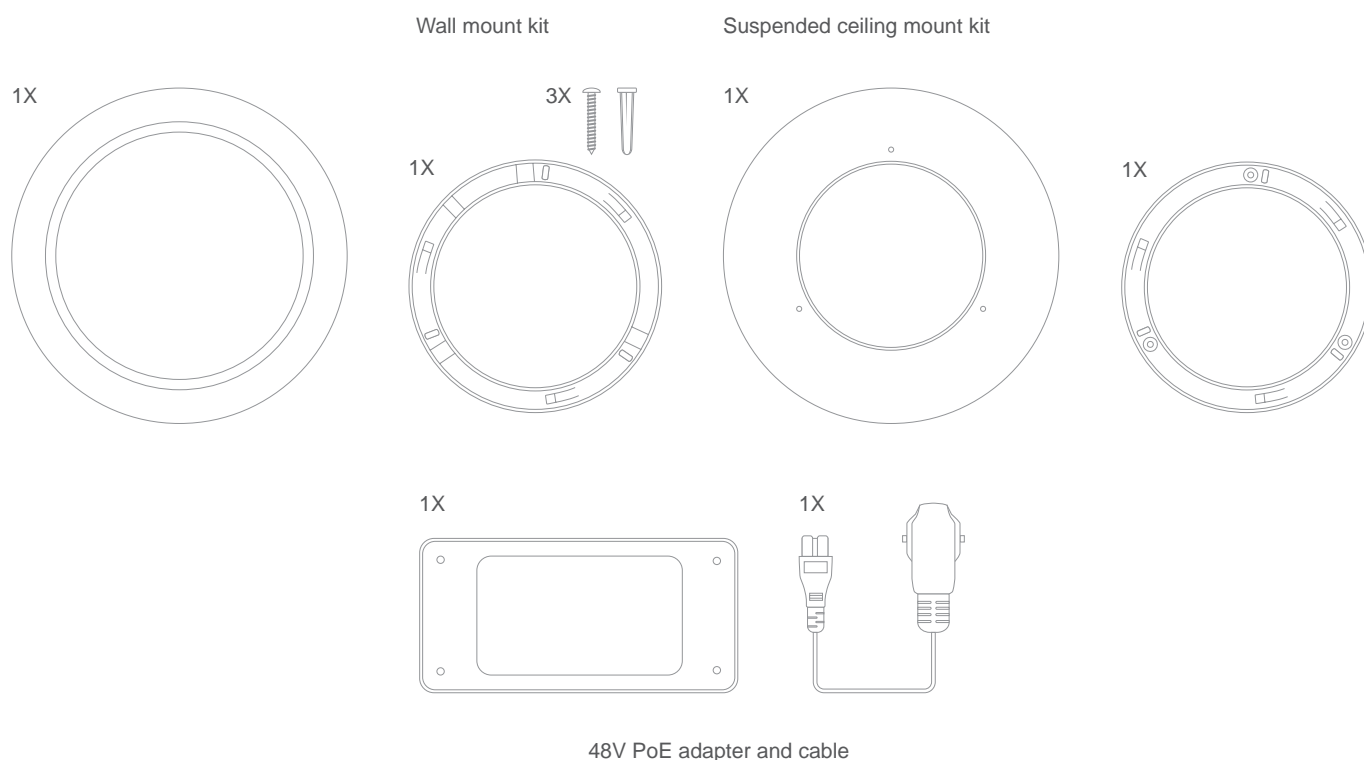|	
Dimensions	Length 180 mm (7.0 ''), width 180 mm (7.0 ''), height 45 mm (1.7 '')
Weight (without mounting)	450 g (15.8 oz)
Mounting	Suspended ceiling mount and wall mount

Environmental

Operating temperature	-10°C (14 F) ~ +55°C (+131 F)
Humidity	0 ~ 90 % (non-condensing)

Regulatory

Certification	FCC/IC/CE

Package contains

Wall mount kit   Suspended ceiling mount kit

1X   3X   1X   1X

1X   1X

1X   1X

48V PoE adapter and cable

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