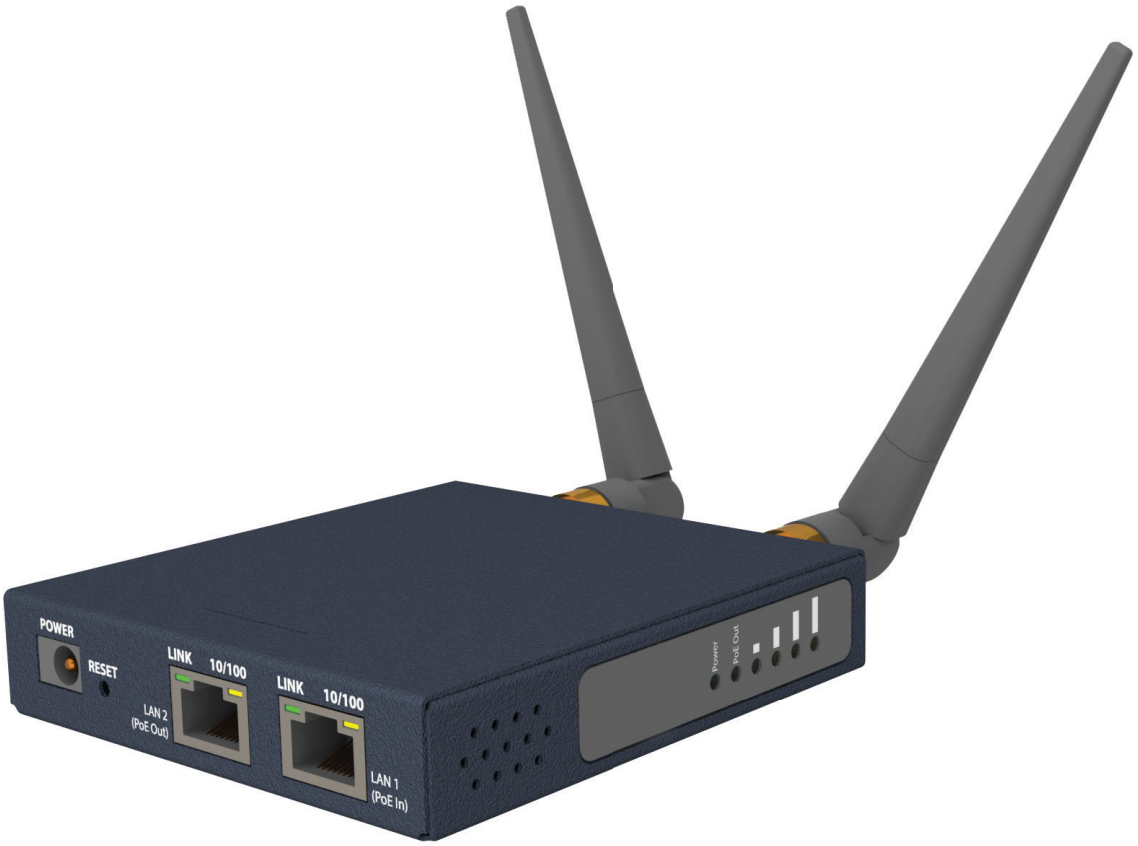
LigoWave



NFT 1Ni

2.4 GHz indoor AP with PoE passthrough

INFINITY

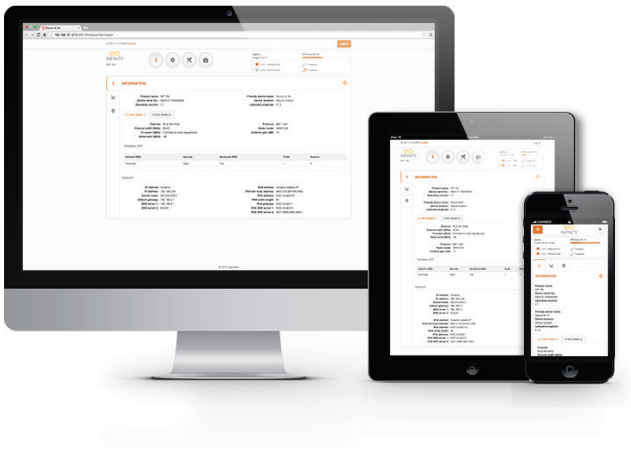
NFT 1Ni

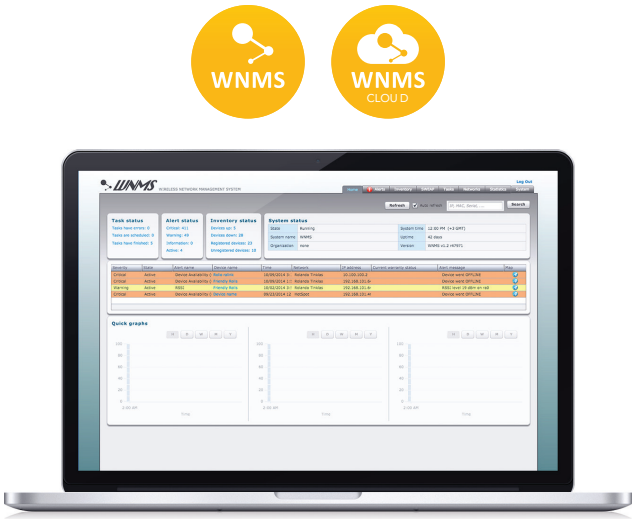
The NFT 1Ni is high-performance indoor access point from LigoWave, equipped with a 2x2 MiMo 802.11N radio operating in the 2.4 GHz band. The small form factor and professional metal enclosure makes this product ideal not only for residential, but also for an enterprise and industrial applications. A second Ethernet port with PoE pass-through (controllable via UI) can power a second device directly without an additional power supply. Alternatively, it can be used as a switch to connect another device. The NFT 1Ni is equipped with an extreme output power (up to 31 dBm) 802.11N MIMO radio suited for wide coverage area applications.

OS

The 2.4 GHz indoor access point runs 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
- 128 concurrent clients
- 8 virtual networks (SSID+VLAN)
- IPv6 support
- WNMS compatible





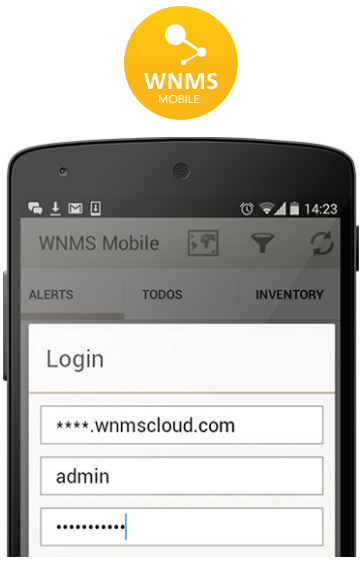
WNMS

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 b/g/n
Radio mode	MIMO 2x2
Operating mode	Access point
Radio frequency band	2.402 - 2.484 GHz (country dependent) FCC 2.412 - 2.462 GHz (CH1-CH11)
Transmit power	2.4 GHz: 31 dBm @ MCS0 (FCC Max certified TX power: 29 dBm)
Channel size	20, 40 MHz
Modulation schemes	802.11 g/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
	802.11 b: DSS (CCK, DQPSK, DBPSK)
Data rates	802.11 n @ 40 MHz: 300, 270, 240, 180, 120, 90, 60, 30
Mbps	
	802.11 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	2x external omni-directional antennas (detachable SMA-RP connector)
Gain	2.4 GHz: 3 dBi
Coverage radius	100 meters (328 ft)

Wired

Interface	2 x 10/100 Base-T, RJ-45 with PoE pass-through support (12-24V passive PoE)

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 v1 server, NTP client, WNMS client

Power

Power method	12-24 V DC passive PoE; additional 12-24 V DC input
Power supply	100 – 240 VAC via included adapter
Power consumption (max)	4.5 W

Management

System monitoring	SNMP v1 server, Syslogs, system alerts via e-mail and SNMP trap

Physical

Dimensions	Length 110 mm (4.33 ''), width 90 mm (3.54 ''), height 20 mm (0.79 '')
Weight (without mounting)	180 g (6.35 oz)

Environmental

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

Regulatory

Certification	FCC/IC/CE