LigoWave

# NFT 1N/ NFT 1N AF

2.4 GHz, 802.11N (2x2) indoor access point

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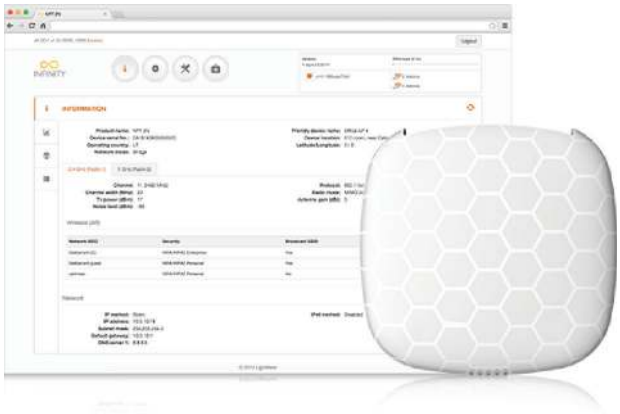
The NFT 1N/ 1N AF are indoor WI-FI access points based on 802.11N technology with integrated 2.4 GHz (2x2) MiMo radios boasting an output power of 28 dBm. 3 Ethernet ports allow connecting multiple devices to the access point. The NFT 1N model is powered with a 12-24V passive PoE adapter and the NFT 1N AF model supports the 802.3af standard, which allows powering the device using a PoE switch.



## OS

The 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
- 128 concurrent clients
- 8 virtual networks (SSID+VLAN)
- IPv6 support
- WNMS compatible

## Proximity

LigoWave access points have an integrated mobile device detection feature. Any device within range can be logged with MAC address and date / time without any user interaction. The data is exported in real time and can be used to enhance the services of enterprise or managed service providers by importing it to their own application. An API is available upon request. There are several technology partners already using the functionality including Cloud4Wi and Socifi.

## WNMS

WNMS is a FREE enterprise grade Wireless Network Management System. 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. 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.

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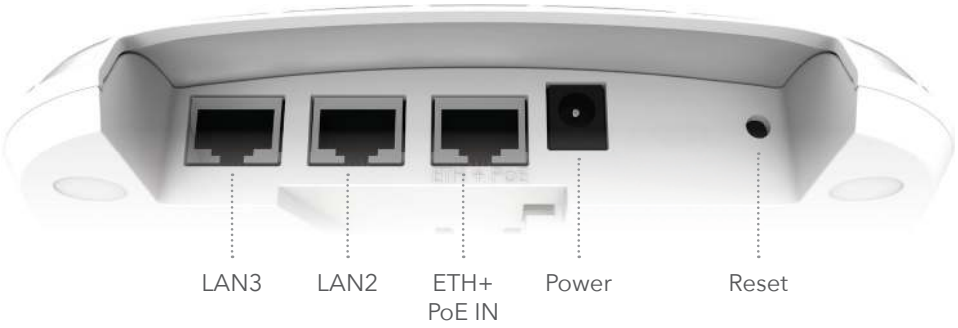
## Interfaces




# Specifications

### Wireless

| | |
|---|---|
| WLAN standard | IEEE 802.11 b/g/n |
| Radio mode | MIMO 2x2 |
| Operating mode | Access point, repeater |
| Radio frequency band | 2.402 - 2.484 GHz (country dependent) FCC 2.412 - 2.462 GHz (CH1-CH11) |
| Transmit power | 2.4 GHz: 28 dBm @ MCS0 (FCC Max certified TX power: 28 dBm) |
| Channel size | 20, 40 MHz |
| Modulation schemes | 802.11 g/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)<br>802.11 b: DSS (CCK, DQPSK, DBPSK) |
| Data rates | 802.11 n @ 40 MHz: 300, 270, 240, 180, 120, 90, 60, 30 Mbps<br>802.11 g @ 20 MHz: 54, 48, 36, 24, 18, 12, 9, 6 Mbps<br>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, Hotspot (UAM) |
| Roaming | Yes |

### Antenna

| | |
|---|---|
| Type | 2 x internal omni-directional antennas |
| Gain | 3 dBi |
| Coverage radius | 100 meters (328 ft) |

### Wired

| | |
|---|---|
| Interface | 3 x 10/100 Base-T, RJ45 |

### Networking

| | |
|---|---|
| Operating mode | Bridge, router IPv4 and IPv6 |
| 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 | NFT 1N: 12-24 VDC passive PoE; additional 12-24V DC input<br>NFT 1N AF: 802.3af with passive PoE (48V) support; additional 48V DC input |
| Power supply | NFT 1N: 100 - 240 VAC to 12-24V VDC passive PoE (inlcuded)<br>NFT 1N AF:100 – 240 VAC to 48 VDC 802.3af PoE (not included) |
| Power consumption (max) | 6.24 W |

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## Management

| | |
|---|---|
| System monitoring | SNMP v1, wyslog |

## Physical

| | |
|---|---|
| Dimensions* | 153 mm (6.1''), 147 mm (5.8 ''), 29 mm (1.14 '') |
| Weight** | 188 g (6.63 oz) |
| Mounting | Suspended ceiling mount, wall/ceiling mount, pole mount |

## Environmental

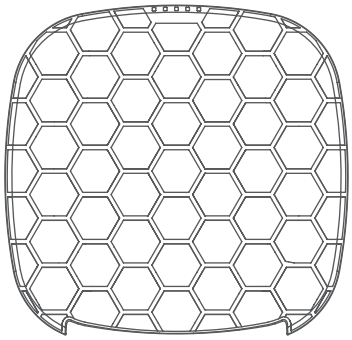
| | |
|---|---|
| Operating temperature | -10°C (14 F) ~ +55°C (+131 F) |
| Humidity | 0 ~ 90 % (non-condensing) |

## Regulatory

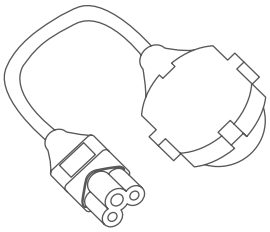
| | |
|---|---|
| Certification | FCC/IC/CE |

## Package contains

* NFT 1N only



x1



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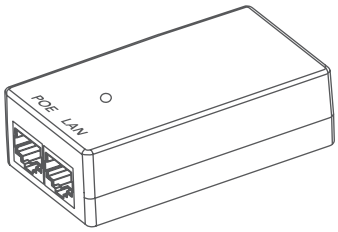


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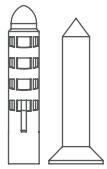

x2

## Flexible mounting

Wall/ceiling

Pole

Suspended ceiling

**NFT 1N/ NFT 1N AF**

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