



LigoWave



## NFT 2ax

A High-Performance 802.11ax Wireless Access Point

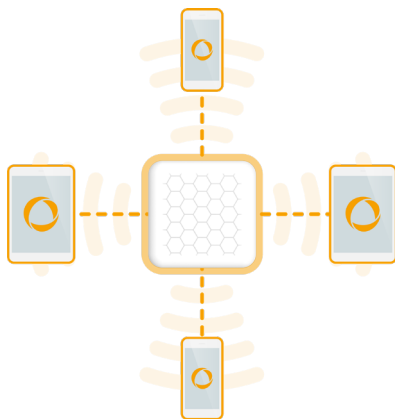
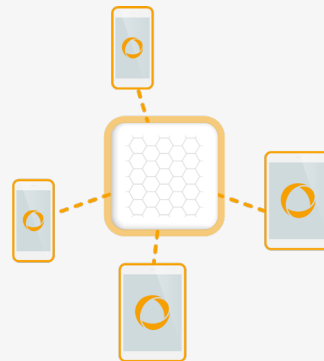


## NFT 2ax

The NFT 2ax is a Wi-Fi access point based on 802.11ax technology with integrated 2.4 and 5GHz (2x2) radios delivering up to +24dBm output power. Equipped with dual-core 1GHz QCA IPQ5000 radio, 256MB RAM and 64MB Flash memory, the NFT 2ax AP brings efficiency to the next level. Two Ethernet ports, 2.5Gbps with 802.3at which allows powering the access point using PoE switches, and an additional Gigabit Ethernet port, provide the users with ability to extend the network or connect additional devices in office or home network. Small footprint, low power consumption and classic LigoWave.

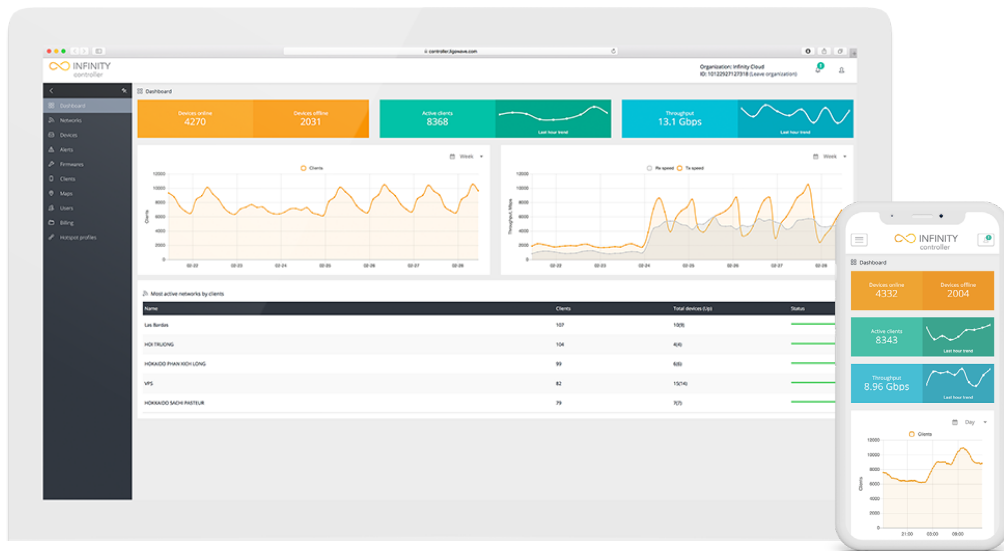
### Optimized Antenna System

NFT 2ax uses dedicated 4-element antenna system specially designed for ceiling and wall installations. Compared to “simply omnidirectional” multi-band on-board antennas, separate antenna elements for each polarization and band provide specific beams with higher gain in the desired coverage area, effectively cancelling unwanted interference to/from adjacent rooms.



### Ideal for High Density SMB Environments

MU-MIMO\* ensures simultaneous multiple stream allocation to different clients, this way increasing throughput, spectrum efficiency, and overall capacity, which is crucial in high-density environments. OFDMA operation provides up to 4x reduction in collisions between client data streams, reducing delay and improving performance with dozens of simultaneously active stations.



## Infinity Controller

The Infinity Controller is an intuitive product and network management platform for your NFT devices. It allows easy, simple, and fast network installation, configuration, and control, all of which can be performed using a web browser.

The Controller also facilitates network maintenance and expansion by automating these processes. The management platform can function as an integrated controller or as an external one (i.e. Infinity Cloud Controller), thus serving as an optimal solution for setting up and managing networks of any size.

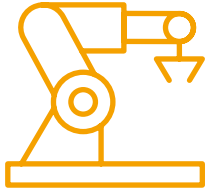


## Easy Mesh\*

Easy Mesh is LigoWave's solution to wireless network coverage expansion and device configuration automation. This feature is designed for the NFT Series (as well as DLB devices utilizing NFT firmware) and is only available on the External Infinity Controller.

The Infinity Controller allows users to set up an Easy Mesh network in a plain and simple way: just have at least one LAN-connected AP, create a new Easy Mesh network, assign devices to it, and you are good to go!





## Automated Device Onboarding

Automated device onboarding (ADO) is the process of automatically setting up Infinity access points that are introduced to the network. Not only does ADO eliminate the discrepancies caused by manual setup, but it also simplifies the deployment process and saves valuable time.

Automated device onboarding requires one-time configuration of the Cloud AP, after which the settings are automatically applied to all Infinity access points that are newly-connected to the network using a physical connection.



## Flexible Network Scaling

The External Infinity Controller is designed with various types of networks in mind, whether they contain just a few access points or thousands of them.

Networks can be categorized into different logical groups (up to 4 layers) based on geographical location, service type, company branch, or other criteria. Each group can have different configurations assigned to them and access points can easily migrate between networks.

Furthermore, the External NFT Controller (installed on customer premises) supports multiple organizations



## Pay as You Grow

A cloud-based Infinity Controller account is free and supports a network of up to 10 Infinity wireless access points, but can be expanded as the business grows. Learn more about the paid version [here](#).



## IP Session Logging

Infinity access points allow users to track and log end-user credentials (source/destination IPs and ports, MAC address, etc.) on the Internet, thus allowing a safer and transparent Internet service.



## Predefined Scenarios for Your Applications

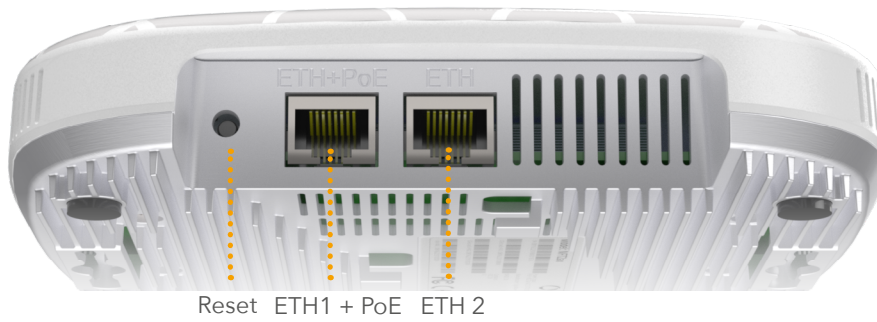
The Infinity Controller provides an array of features, collectively forming the optimal solution for multiple scenarios, e.g. a complete any-size office access point network, small café or shop hotspot, and an Easy Mesh application, which is popular among small hotels, schools, and hospitals.



## WPA3 Security

The NFT 2ax access point supports state-of-art authentication and encryption algorithms according to WPA3 specifications, ensuring secure operation regardless of operational environment, from "Secure Open" to WPA3- Enterprise networks.

# Interfaces



## Technical Specifications

### Wireless

|                      |   |
|----------------------|---|
| WLAN Standard        | IEEE 802.11a/b/g/n/ac/ax  |
| Radio Mode           | Dual 2x2  |
| Radio Chains/Streams | 2x2:2   |
| Operating Modes      | Access Point, Repeater  |
| Radio Frequency Band | 2.402–2.484GHz (Country-Dependent)<br>5.170-5.875GHz (Country-Dependent)  |
| Transmit Power       | 2 GHz: +20dBm<br>5 GHz: +24dBm  |
| Channel Size         | 20, 40, 80, 160MHz  |
| Modulation Schemes   | 802.11ax: OFDMA/OFDM (1024 QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)  |
| Data Rates           | 802.11ax @ 160MHz: 2402, 2161, 1921, 1729, 1441, 1297, 1152, 864, 576, 432, 288, 144Mbps<br>802.11ax @ 80MHz: 1201, 1080, 960, 864, 720, 648, 576, 432, 288, 216, 144, 72Mbps<br>802.11ax @ 40MHz: 573, 516, 458, 412, 344, 309, 275, 206, 137, 103, 68, 34Mbps<br>802.11ax @ 20MHz: 286, 258, 229, 206, 172, 154, 137, 103, 68, 51, 34, 17Mbps |
| Duplexing Scheme     | Time Division Duplex  |
| Wireless Security    | WPA/WPA2/WPA3 Personal, WPA/WPA2/WPA3 Enterprise (802.1x), WACL, Hotspot (UAM*)   |
| Roaming              | Supported   |
| Beamforming          | Supported   |

### Antenna

|                 |                                      |
|-----------------|--------------------------------------|
| Type            | 4x Internal Omnidirectional Antennas |
| Gain            | 2.4GHz: 4dBi, 5GHz: 5dBi             |
| Coverage Radius | 100m (328ft)                         |

### Interfaces

|  |
|--|
| 1x 10/100/2500 Base-T with 802.3at PoE |
| 1x 10/100/1000 Base-T                  |
| Reset Button                           |

## 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                                   |
| Bandwidth Limitation | Supported per SSID                          |

## Traffic Management

|                        |           |
|------------------------|-----------|
| Client Isolation       | Supported |
| Wi-Fi Multimedia (WMM) | Supported |
| Multicast Enhancement  | Supported |
| Concurrent Clients     | 254       |

## Services

|          |  |
|----------|--|
| Services | SNMP server, system alerts, NTP Client |
|----------|--|

## Power

|                           |                                    |
|---------------------------|------------------------------------|
| Power Method              | 802.3at PoE (55VDC) Support        |
| Power Supply              | 100–240VAC to 55VDC PoE (Optional) |
| Typical Power Consumption | 10W                                |
| Max. Power Consumption    | 14W                                |

## Management

|                   |   |
|-------------------|---|
| System Monitoring | SNMP v1/2c/v3*, Syslog, Infinity Controller |
|-------------------|---|

## Physical Specifications

|            |   |
|------------|---|
| Dimensions | 152.5mm (6.00") × 152.5mm (6.00") × 30mm (1.18")  |
| Weight     | 404g (14.25oz)  |
| Mounting   | Suspended Ceiling Mount (15/16 or 9/16 Ceiling Clip), Wall Mount, Free-standing placement |

## Environmental Specifications

|                       |                             |
|-----------------------|-----------------------------|
| Operating Temperature | 0°C (32°F) ~ +40°C (+104°F) |
| Humidity              | 0–95% (Non-Condensing)      |

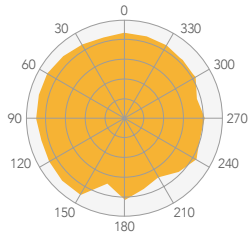
## Regulatory

|               |               |
|---------------|---------------|
| Certification | FCC/CE/UK CA* |
|---------------|---------------|

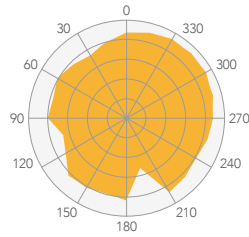
\*Coming soon

## Antenna specifications

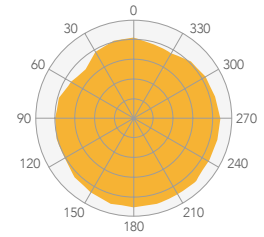
### 2.4GHz



XZ Plane

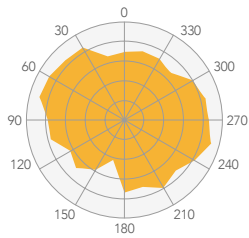


YZ Plane

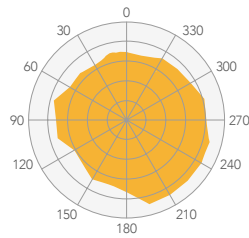


XY Plane

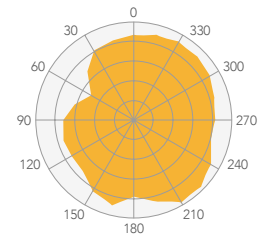
### 5GHz



XZ Plane



YZ Plane



XY Plane

### 2.4GHz Integrated Antenna

|                 |              |
|-----------------|--------------|
| Frequency Range | 2.4 – 2.5GHz |
| Gain            | 4 dBi        |
| VSWR Max        | 1.8:1        |

### 5GHz Integrated Antenna

|                 |              |
|-----------------|--------------|
| Frequency Range | 5.1 – 5.9GHz |
| Gain            | 5 dBi        |
| VSWR Max        | 1.7:1        |



LigoWave

[www.ligowave.com](http://www.ligowave.com)

## NFT 2ax

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