



NFT2ax

A High-Performance 802.11ax Wireless Access Point

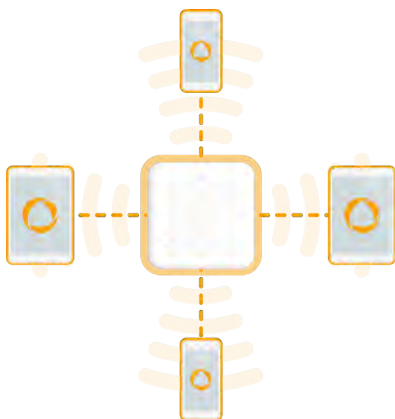
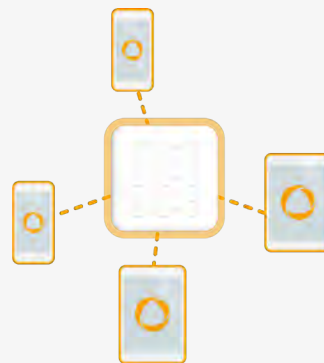


NFT2ax

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 +25dBm 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

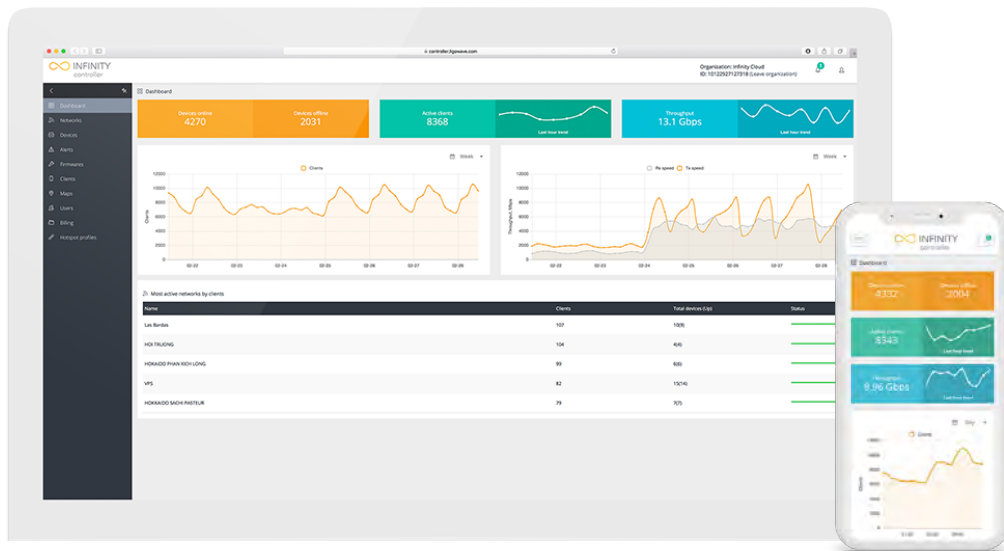
NFT 2ax uses dedicated 4-element antenna system specially designed for ceiling and wall installations. Compared to "simply omnidirectional" multi-band on-board antennas, separate antenna elements for each polarization and band provide specific beams with higher gain in the desired coverage area, effectively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

**Not all combinations are supported in the current firmware release. Functionality requires client device/driver support for maximum efficiency.*



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.

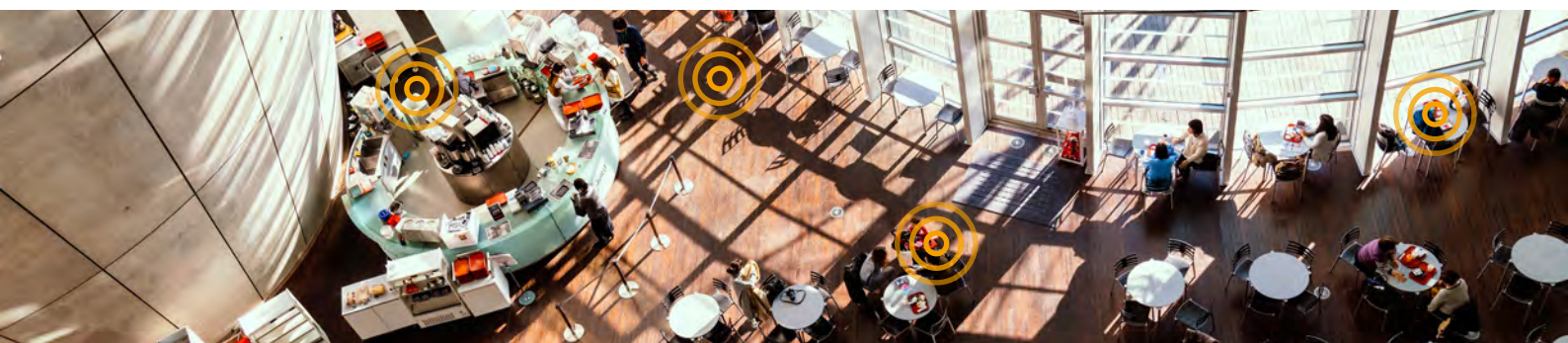
The Controller also facilitates network maintenance and expansion by automating these processes. The management platform can function as an integrated controller or as an external one (i.e. Infinity Cloud Controller), thus serving as an optimal solution for setting up and managing networks of any size.

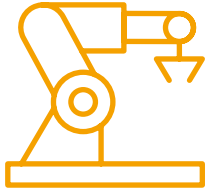


Easy Mesh*

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 simultaneously (many network owners).



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 2×2
Radio Chains/Streams	2×2:2
Operating Modes	Access Point, Repeater
Radio Frequency Band	2.402–2.484GHz (Country-Dependent) 5.170–5.875GHz (Country-Dependent)
Transmit Power	2 GHz: 20dBm 5 GHz: 24dBm
Channel Size	20, 40, 80MHz
Modulation Schemes	802.11ax: OFDM (1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) 802.11ac: OFDM (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) 802.11a/g/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11b: DSS (CCK, DQPSK, DBPSK)
Data Rates	802.11ax: OFDM (1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) 802.11ac @ 80MHz: 867, 780, 650, 585, 520, 390, 260, 195, 130, 65Mbps 802.11n @ 40MHz: 400, 270, 240, 180, 120, 90, 60, 30Mbps 802.11a/g @ 20MHz: 54, 48, 36, 24, 18, 12, 9, 6Mbps 802.11b @ 20MHz: 11, 5.5, 2, 1Mbps
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	4× Internal Omnidirectional Antennas
Gain	2.4GHz: 4dBi, 5GHz: 5dBi
Coverage Radius	100m (328ft)

Interfaces

1× 10/100/2000 Base-T with 802.3af/at PoE
1× 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
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Power

Power Method	DC Jack (12V/1A) or 802.3af/at with Passive PoE (48–56V) Support
Power Supply	100–240VAC to 48VDC PoE (Optional)
Max. Power Consumption	10W

Management

System Monitoring	SNMP v1/2c/3, Syslog, Infinity Controller
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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

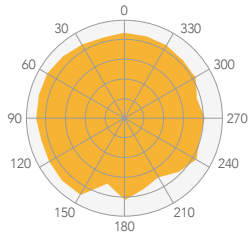
Outdoor Ingress Protection	Rating IP65
Operating Temperature	0°C (32°F) ~ +40°C (+104°F)
Humidity	0–95% (Non-Condensing)

Regulatory

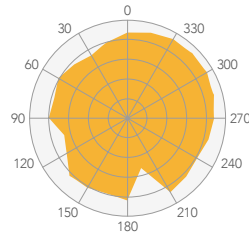
Certification	FCC/CE/UK CA
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Antenna specifications

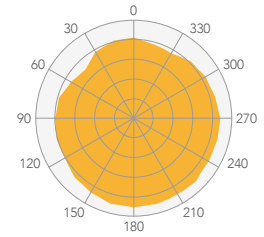
2.4GHz



XZ Plane

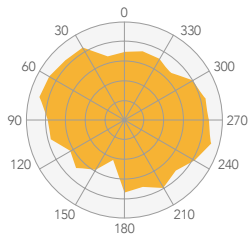


YZ Plane

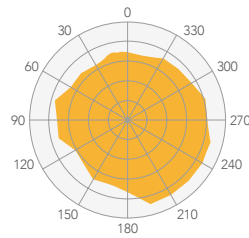


XY Plane

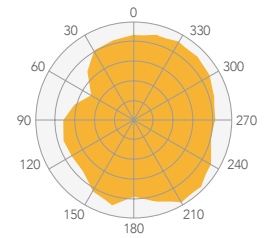
5GHz



XZ Plane



YZ Plane



XY Plane

2.4GHz Integrated Antenna

Frequency Range	2.4 – 2.5GHz
Gain	4dBi
VSWR	1.7:1

5GHz Integrated Antenna

Frequency Range	5.1 – 5.9GHz
Gain	5dBi
VSWR	2:1

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.



LigoWave

www.ligowave.com

NFT 2ax

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