



NFT 3 ac

High performance dual-radio 802.11ac access point

The Infinity NFT 3AC is a high-performance dual-radio access point from LigoWave, equipped with two 3x3 MIMO 802.11ac radios operating in 2.4 and 5 GHz bands concurrently. A dedicated Qualcomm Atheros AR9558 CPU (720 MHz) makes this AP ideal for enterprise capacity demanding applications reaching 450 Mbps data rate on a 2.4 GHz radio and 1300 Mbps data rate on a 5 GHz radio. There are two Gigabit Ethernet ports and one of them supports 802.3af/at standard for easy and quick deployment using PoE switches.



Integrated security radio

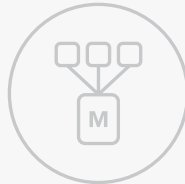
The NFT 3AC has an integrated dual-band radio dedicated for security and RF management. It also allows doing real-time spectrum analysis without any interruption to the main radios dedicated for access. (Note: security and RF management features will be supported in the future firmware releases for the NFT 3AC devices)

3 ways to use



Standalone

Each device is configured via the user interface individually. This method is suitable for small networks not requiring centralized management and monitoring.



Master AP

Master device manages and monitors other devices on the same network. This controllerless architecture is suitable for small to medium size networks with up to 20 devices.



Infinity controller

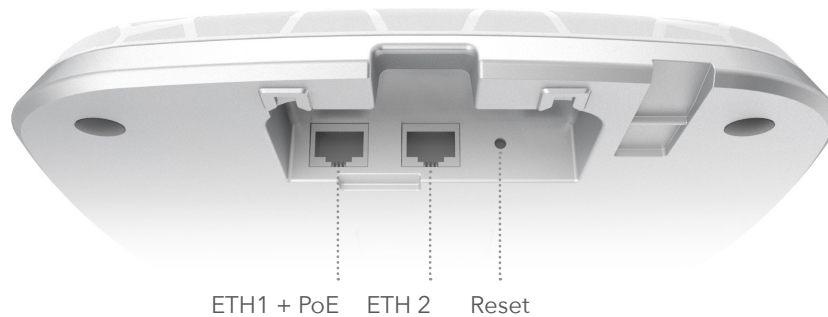
Local or cloud-based controller is used to manage and monitor the devices allowing to deploy large scale networks and manage them using a single system.



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.

Interfaces



Specifications

Wireless

WLAN standard	IEEE 802.11 a/b/g/n/ac
Radio mode	MIMO dual 3x3
Operating mode	Access point, repeater
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: 22 dBm per chain @ MCS23 5 GHz: 22 dBm per chain @ MCS23
Channel size	20, 40, 80 MHz
Modulation schemes	802.11 ac: OFDM (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) 802.11 a/g/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11 b: DSS (CCK, DQPSK, DBPSK)
Data rates	802.11 ac @ 80 MHz: 1300, 1170, 975, 780, 585, 390, 292.5, 195, 97.5 Mbps 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, Hotspot (UAM)

Antenna

Type	6x internal omni-directional antennas
Gain	2.4 GHz: 3 dBi 5 GHz: 3 dBi
Coverage radius	150 meters (492 ft)

Wired

Interface	2 x 10/100/1000 Base-T, RJ-45
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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 802.3 af/at with passive PoE (37 - 56V) support
Power supply 100 – 240 VAC to 48 VDC PoE (included)
Power consumption (max) 19 W

Management

System monitoring SNMP v1, syslog

Physical

Dimensions Length 191.5 mm (7.54 "), width 191.5 mm (7.54 "), height 35.5 mm (1.4 ")
Weight 650 g (22.9 oz)
Mounting Suspended ceiling mount and wall/ceiling mount

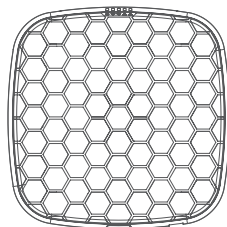
Environmental

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

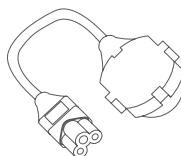
Regulatory

Certification FCC/IC/CE

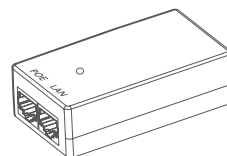
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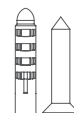
x1



x1



x1



x4

Flexible mounting



Wall/ceiling



Suspended ceiling

NFT 3AC