



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 the 2.4 and 5GHz bands concurrently. A dedicated Qualcomm Atheros AR9558 CPU (720MHz) makes this AP ideal for enterprise capacity demanding applications reaching 450Mbps data rate on a 2.4GHz radio and 1300Mbps data rate on a 5GHz 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 the main radios dedicated for access. (Note: the security and RF management features will be supported in a future firmware release)

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

The 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 50 devices.



Infinity controller

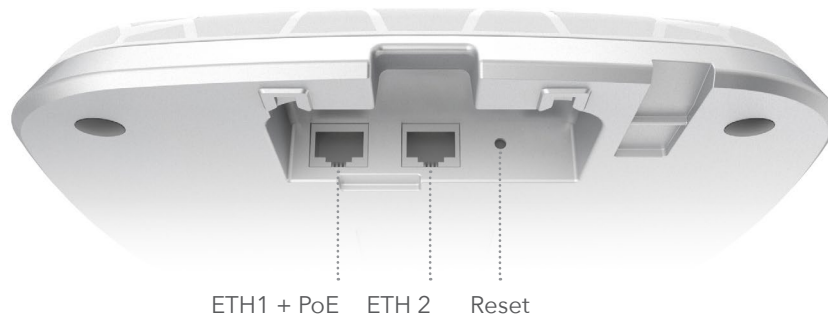
A local or cloud-based controller is used to manage and monitor the devices allowing deployment of large scale networks and management using a single system.



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 3×3
Operating Mode	Access Point, Repeater
Radio Frequency Band	2.402-2.484GHz (Country Dependent) FCC 2.412-2.462GHz (CH1-CH11) 5.170-5.875GHz (Country Dependent) FCC 5.745-5.825GHz (CH149-CH161)
Transmit Power	2.4GHz: 22dBm per chain @ MCS23 5GHz: 22dBm per chain @ MCS23
Channel Size	20, 40, 80MHz
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 @ 80MHz: 1300, 1170, 975, 780, 585, 390, 292.5, 195, 97.5Mbps 802.11 n @ 40MHz: 450, 405, 360, 270, 180, 135, 90, 45Mbps 802.11 a/g @ 20MHz: 54, 48, 36, 24, 18, 12, 9, 6Mbps 802.11 b @ 20MHz: 11, 5.5, 2, 1Mbps
Duplexing Scheme	Time Division Duplex
Wireless Security	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, Hotspot (UAM)
Roaming	Yes

Antenna

Type	6× internal omni-directional antennas
Gain	2.4GHz: 3dBi 5GHz: 3dBi
Coverage Radius	150m (492ft)

Wired

Interface	2× 10/100/1000 Base-T, RJ-45
-----------	------------------------------

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

Traffic Management

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

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)
Max Power Consumption	19W

Management

System Monitoring	SNMP v1, Syslog
-------------------	-----------------

Physical

Dimensions	Length 191.5mm (7.54"), Width 191.5mm (7.54"), Height 35.5mm (1.4")
Weight	650g (22.9oz)
Mounting	Suspended Ceiling Mount and Wall/Ceiling Mount

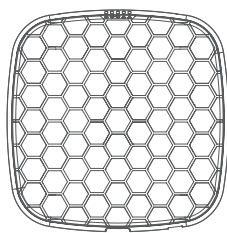
Environmental

Operating Temperature	-10°C (14°F) ~ +55°C (+131°F)
Humidity	0 ~ 90 % (Non-Condensing)

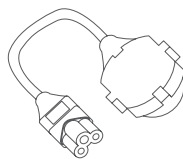
Regulatory

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

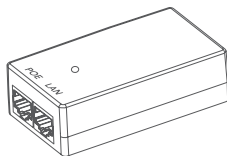
Package contains



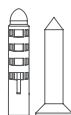
x1



x1



x1



x4

Flexible mounting



Wall/ceiling



Suspended ceiling

NFT 3ac