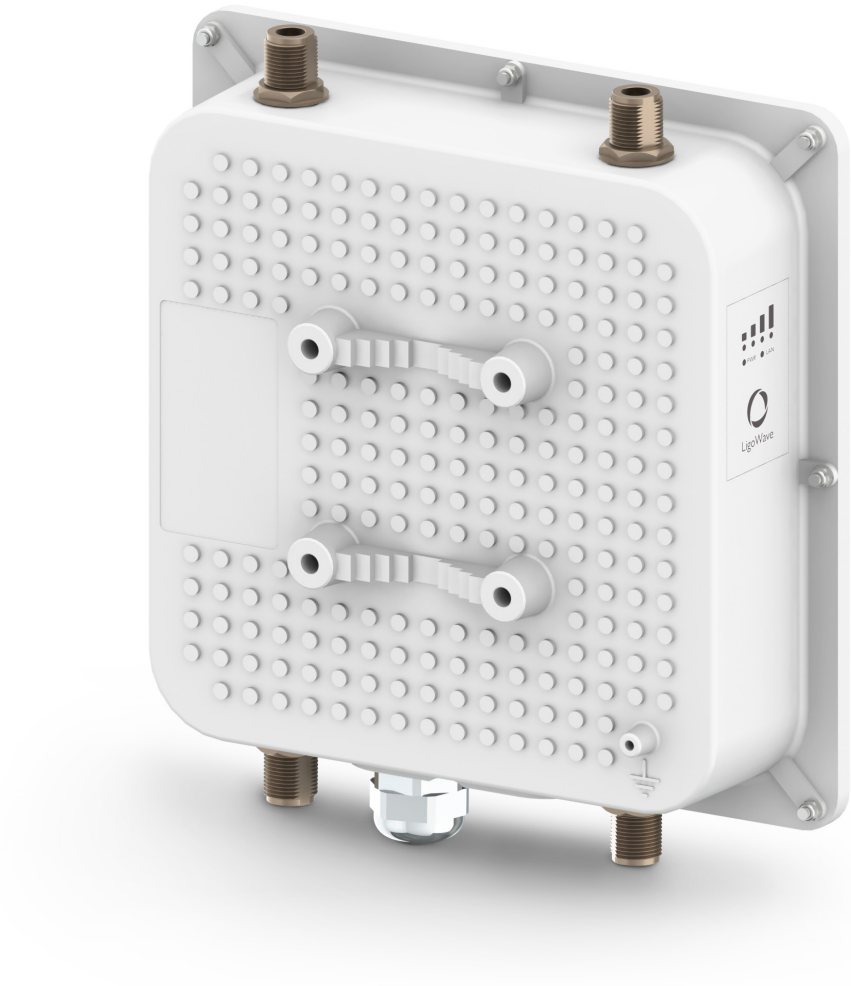
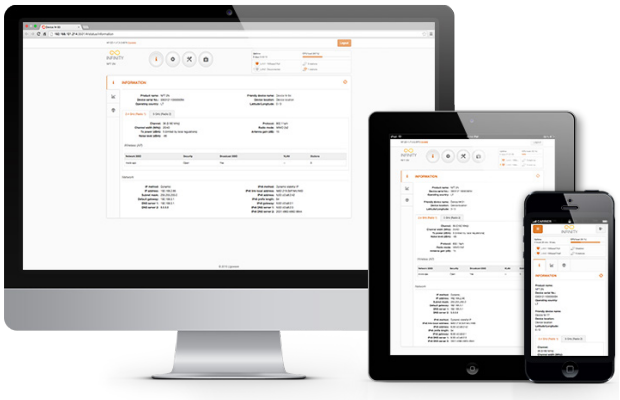
LigoWave



NFT 2 ac outdoor

Dual-band, dual-radio 802.11ac outdoor access point

The NFT 2AC outdoor is a WI-FI access points based on 802.11ac technology with integrated 2.4 and 5 GHz (2x2) MiMo radios boasting an output power of 29 dBm. The gigabit Ethernet port with 802.3af/at support allows powering the device with PoE switches. The provided N-type connectors support a variety of antennas to be utilized based on the specific application. The IP-67 standards rated enclosure, integrated surge protection and professional mounting bracket help ensure continuous operation in the harshest of weather conditions.



OS

The outdoor 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
- 256 concurrent clients
- 16 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.

Specifications

Wireless

WLAN standard	IEEE 802.11 a/b/g/n/ac
Radio mode	MIMO dual 2x2
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: 29 dBm @ MCS0 5 GHz: 29 dBm @ MCS0
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: 866, 780, 650, 585, 520, 390, 260, 195, 130, 65 Mbps 802.11 n @ 40 MHz: 300, 270, 240, 180, 120, 90, 60, 30 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	4 x N-type connectors
Coverage radius	Antenna dependent

Wired

Interface	1 x 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

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	Width 218 mm (8.5 ”), height 218 mm (8.5 ”), depth 70 mm (2.7 ”)
Weight	2 kg (4.4 lb) (mount included)
Mounting	Articulating wall/pole mounting bracket

Environmental

Operating temperature	-40°C (-40 F) ~ +55°C (+131 F)
Humidity	0 ~ 90 % (non-condensing)

Regulatory

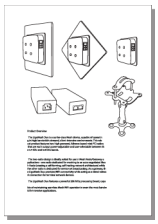
Certification	FCC/IC/CE

Package contents

48 V 802.3 af PoE with grounding and lightining protection

NFT 2AC outdoor unit

Professional mounting kit



Quick install guide

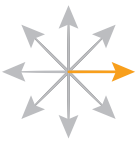
LinkCalc™

Link calculator is a link planning tool available online. The link calculator allows users to calculate link perfor-mance expectations taking into account geographical information, distance between the units, antenna height and gain, transmit power, and other factors in order to choose the most suitable product available from the LigoWave and Deliberant extensive product portfolios. In addition, custom calculations using other vendors’ equipment specs can be used, making link calculator the ultimate link planning tool.

Available at: http://www.ligowave.com/linkcalc

Maps integration

Downloadable PDF reports



PTP and PTMP mode support

Online storage for saved calculations