LigoWave



NFT Blizzard 2ac-90 Lite

A 2.4/5GHz Dual-Radio 802.11ac Outdoor Sector Access Point

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NFT Blizzard 2ac-90 Lite

The NFT Blizzard 2ac-90 Lite is an outdoor Wi-Fi access point that utilizes the 802.11ac technology and integrated 2.4/5GHz 2×2 MIMO radios, boasting 25dBm of transmit power.

The device's gigabit Ethernet port with 802.3af/at support allows users to power up the device using PoE switches.

The NFT Blizzard 2ac-90 Lite is specifically designed for cost-efficient, yet professional outside hotspot scenarios. The IP66-rated casing, integrated surge protection, and easy-to-use pole mounting ensure an effective and inexpensive solution for various applications, including public Wi-Fi, education, hospitality, retail, dining venues, and many more.



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.

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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.



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.



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.

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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!



Proximity

LigoWave access points have an integrated mobile device detection feature. This means that any device within range can be logged using the MAC address and date/time without any user interaction.

The data is exported in real time and can be used to improve the services of an enterprise or managed service provider by importing them into proprietary applications for analytics and insights. An API is available upon request.

Several of LigoWave's technological partners are already using this functionality. For more information, check go to the LigoWave Technological Partners page at ligowave.com/technological-partners.

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Small Form Factor

A small form factor means smaller packaging, which in turn reduces transportation costs and enables the devices to blend in better with the surroundings. Moreover, the NFT Blizzard 2ac-90 Lite is designed with a non-metallic IP66 weatherproof exterior, making the device lighter and corrosion-resistant.



Innovative Pole Mounting

The NFT Blizzard 2ac-90 Lite has an innovative adjustable mounting bracket, designed for assembly and installation on poles.

It consists of two easy-to-connect parts that allow robust mounting and precision tilting. A metal strap is included to securely tighten the device.

The design includes additional reinforcements and strong materials to ensure resilience in extreme climate conditions.

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Specifications

Wireless

WLAN Standard	IEEE 802.11a/b/g/n/ac
Radio Mode	Dual 2×2 MIMO
Radio Frequency Band	2.402–2.482GHz (Country-Dependent); FCC 2.402–2.472GHz (CH1–CH11) 5.150–5.850GHz (Country-Dependent); FCC 5.150-5.250GHz (CH36-CH48), 5.725-5.850GHz (CH149–CH161)
Transmit Power	2.4GHz: 22dBm @ MCS7; 25dBm @ MCS0 5GHz: 20dBm @ MCS9; 25dBm @ MCS0
Channel Size	20, 40, 80MHz
Modulation Schemes	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	802.11ac @ 80MHz: 866, 780, 650, 585, 520, 390, 260, 195, 130, 65Mbps 802.11n @ 40MHz: 300, 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 (TKIP/AES) Personal, WPA/WPA2 (TKIP/AES) Enterprise, WACL, Hotspot (UAM)
Roaming	Yes

2.4GHz

40MHz	Modulation, Mbps	300	270	240	180	120	90	60	30
	TX Power, dBm	22	22	23	24	24	24	24	25
	Receive Sensitivity, dBm	-66	668	-70	-74	-76	-80	-82	-86

5GHz

40MHz	Modulation, Mbps	400	360	300	270	240	180	120	90	60	30
	TX Power, dBm	20	21	22	23	23	24	24	24	24	25
	Receive Sensitivity, dBm	-62	-65	-69	-72	-73	-78	-81	-84	-87	-90
80MHz	Modulation, Mbps	866	780	650	585	520	390	260	195	130	65
	TX Power, dBm	20	21	22	23	23	24	24	24	24	25
	Receive Sensitivity, dBm	-58	-60	-66	-68	-70	-74	-77	-81	-84	-88

Antenna

Type	Integrated Dual-Polarized 2.4/5GHz 90° Sector Antenna
Gain	11dBi (5GHz) / 9dBi (2.4GHz)

Wired

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

Networking

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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 radio
Band Steering	Supported

Traffic Management

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

Services

Services	SNMP server, NTP client, system alerts
Discovery Services	Bonjour, CDP/LLDP, SSDP

Power

Power Supply	802.3af/at with Passive PoE (37–56V) Support
Power Source	100–240VAC to 48VDC PoE (Included)
Power Consumption	12W

Physical Specifications

Dimensions	380mm, 100mm, 35mm
Weight	0.460g
Mounting	Pole Mounting Bracket Included

Environmental Specifications

Operating Temperature	–40°C (–40°F) ~ +65°C (+149°F)
Humidity	0~90% (Non-Condensing)
Surge Protection	2/4kV (Class 4)

Management

System Monitoring via SNMP v1, Full Management via External NFT Controller

Regulatory

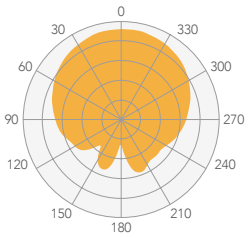
Certification	FCC/IC/CE

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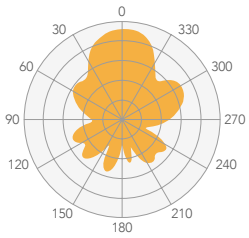
Antenna specifications

2.4GHz

V Pol

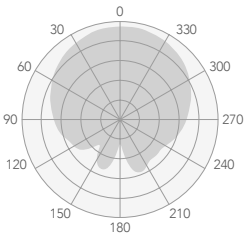


Azimuth

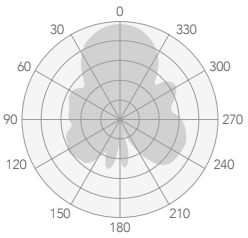


Elevation

H Pol



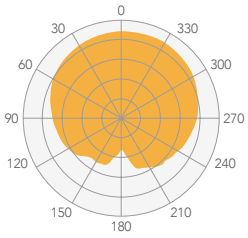
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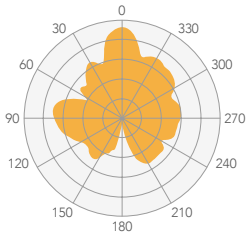
Elevation

5GHz

V Pol

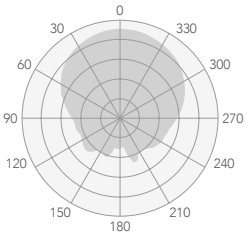


Azimuth

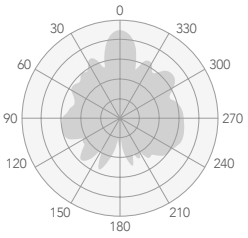


Elevation

H Pol



Azimuth



Elevation

5GHz Integrated Antenna

Frequency Range	5.1 – 5.9GHz
Gain	11dBi
Polarization	Dual Linear
Cross-Pol Isolation	23dB
VSWR	<1.7, typicaly 1.3
Azimuth Beamwidth (H-Pol)	90°
Azimuth Beamwidth (V-Pol)	90°
Elevation Beamwidth	16°

2.4GHz Integrated Antenna

Frequency Range	2.4 – 2.5GHz
Gain	9dBi
Polarization	Dual Linear
Cross-pol Isolation	18dB
VSWR	<1.7, typicaly 1.3
Azimuth Beamwidth (H-Pol)	90°
Azimuth Beamwidth (V-Pol)	90°
Elevation Beamwidth	35°

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