

Nile Zero Trust Fabric

NWA 1200 AP



Overview

The Nile NWA 1200 is an indoor Wi-Fi 7 (802.11be) access point engineered for high-performance connectivity in offices, classrooms, and other dense indoor environments. It delivers tri-band wireless connectivity across 2.4 GHz, 5 GHz, and 6 GHz, enabling higher throughput, lower latency, and improved efficiency for modern applications and growing mobility demands. Wi-Fi 7 support includes Multi-Link Operation (MLO) for more efficient use of available spectrum. The AP features 4×4 radios for 5 GHz and 6 GHz, a 2×2 radio for 2.4 GHz operation, and a dedicated tri-band sensor radio that continuously validates coverage, capacity, and availability.

As part of Nile's Zero Trust Fabric, the NWA 1200 runs in a secure, cloud-delivered network-as-a-service architecture with centrally enforced segmentation and autonomous operations for continuous assurance and optimization. QR-code activation through the Nile Nav app enables fast, error-free installation with guided workflows.

Features

Tri-band Wi-Fi 7 Capable

Delivers high-performance wireless connectivity across 6 GHz, 5 GHz, and 2.4 GHz, with 4×4 operation in 5 GHz and 6 GHz and 2×2 operation in 2.4 GHz for high capacity and efficient multi-client throughput.

Target Wake Time (TWT)

Ideal for IoT devices that communicate infrequently, TWT schedules when clients communicate with the AP to improve power savings and reduce airtime contention.

Transmit Beamforming (TxBF)

Increased signal reliability and range

Dynamic Frequency Selection (DFS)

Optimized use of available RF spectrum

Seamless Device Roaming

Standards that aid in better Wi-Fi device roaming such as 802.11k, 802.11r, and 802.11v.

Automatic Channel Planning

Radios automatically optimize channel and power settings for peak performance, with built-in coverage hole detection and mitigation.

Optimized Connection and QoS

Steers dual-band capable devices to the optimal band and moves low-RSSI clients to stronger APs for a better connection.

Zero Trust Security

• WPA3 & Enhanced Open Security

Stronger encryption and authentication for protected networks, with automatic session encryption on open networks to safeguard user data and passwords.

• Secure Management

Secure connectivity is enforced by a tamper-proof design, allowing management exclusively through the Nile Services Cloud.

Specifications

Hardware Model

NWA 1200 - Internal Antenna Model.

Wi-Fi Radio Specifications

Indoor, Quad-radio

- 6 GHz radio, 802.11be 4×4 MIMO
- 5 GHz radio, 802.11be 4×4 MIMO
- 2.4 GHz radio, 802.11be 2×2 MIMO
- Tri-band capable 4th radio, 802.11ax

Primary WLAN Radios

6GHz Radio	4×4 SU-MIMO capable; DL-MU-MIMO, UL-MU-MIMO, DL-OFDMA, UL-OFDMA capable.
5GHz Radio	4×4 SU-MIMO capable; DL-MU-MIMO, UL-MU-MIMO, DL-OFDMA, UL-OFDMA capable.
2.4GHz Radio	2×2 SU-MIMO capable; DL-MU-MIMO, UL-MU-MIMO, DL-OFDMA, UL-OFDMA capable.
Supported Frequency Bands, Channels, DFS (country specific restrictions apply)	2.400 - 2.4835GHz (ISM) 5.150-5.250GHz (U-NII-1) 5.250-5.350GHz (U-NII-2A) 5.470-5.725GHz (U-NII-2C / U-NII-2E) 5.725-5.850GHz (U-NII-3) 5945 to 6425MHz (U-NII-5) 6.425 to 6.525 GHz (U-NII-6) 6.525 to 6.875 GHz (U-NII-7) 6.875 to 7.125 GHz (U-NII-8) Channel availability depends on configured country and regulatory domain. Dynamic Frequency Selection (DFS) optimizes
Transmit power	2.4 GHz radio - Max 18 dBm (21 dBm EIRP), Min 0 dBm 5 GHz radio - Max 18 dBm (28 dBm EIRP), Min 0 dBm 6 GHz radio - Max 18 dBm (28 dBm EIRP), Min 0 dBm

Fourth Radio (Monitoring/Sensor)

	Tri-band capable, 802.11ax, 2×2 radio. Operating bands: 2.400 - 2.4835 GHz, 5.150 - 5.250 GHz, 5.250 - 5.350 GHz, 5.470 - 5.725 GHz, 5.725 - 5.850 GHz, 5.945 - 6.425 GHz, 6.425 - 6.525 GHz, 6.525 - 6.875 GHz, 6.875 - 7.125 GHz.
Transmit power	6 GHz - Max 30 dBm (EIRP) 5 GHz - Max 22 dBm (EIRP) 2.4 GHz - Max 20 dBm (EIRP)
Antenna	Omni-directional internal antenna.

Ethernet

Interface	1× 100M/1/2.5/5/10GbE RJ45 port, with line-rate MACsec support.
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Power Sources, Power Consumption

Power over Ethernet: 802.3bt
Power budget - 43W at full load

Mechanical Specifications, Enclosure, LEDs, BT/BLT

	Ceiling mount and wall mount capable with universal mount kit Indoor mechanical design Shock and vibration resistant Plenum rated for use in air-handling spaces Dimensions: 10.6" × 10.6" × 2.7" (270 mm × 270 mm × 69.5 mm)
Mounting	Industrial design to support easy mounting and installation Supports universal mount kits and tool-less mounting Ceiling and wall mount capable
QR Code	QR code identifier on the enclosure
LED	Single LED with 3 colors: Red, Blue, Green
Bluetooth	Supported for hardware installation and activation

Environment/Operation Conditions

Operating Temperature	0°C to 45°C
Operating Humidity	5 to 90% relative humidity, non-condensing. ETS 300 019 class 3.2 environments.
Storage and Transportation Conditions	-40°C to +70°C; humidity 5% to 93% non-condensing; ETS 300 019 classes 1.2 and 2.3 environments.
MTBF	148,631 hrs at 77°F (25°C).

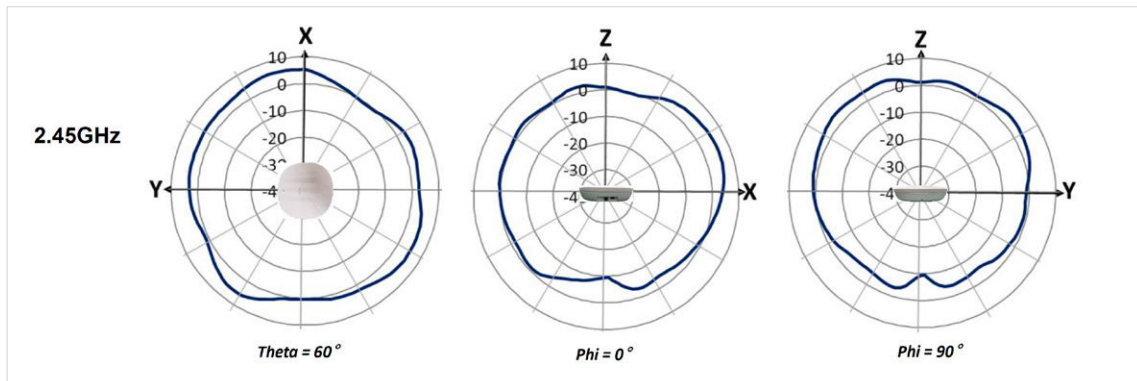
Regulatory Compliance

Meets required regulatory compliance standards applicable to similar products:

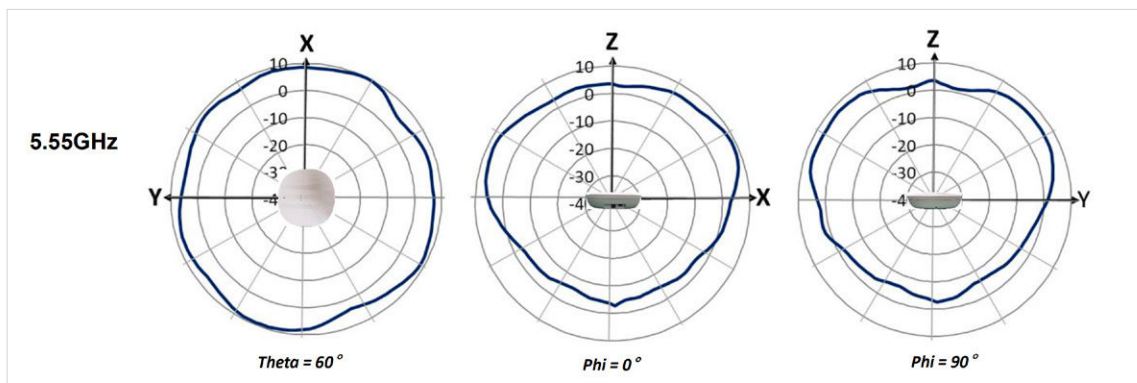
- FCC/IC/CE
- UL/IEC/EN 60950
- UL2043 plenum rating
- Bluetooth SIG
- Wi-Fi Alliance Certified

Signal Coverage Patterns

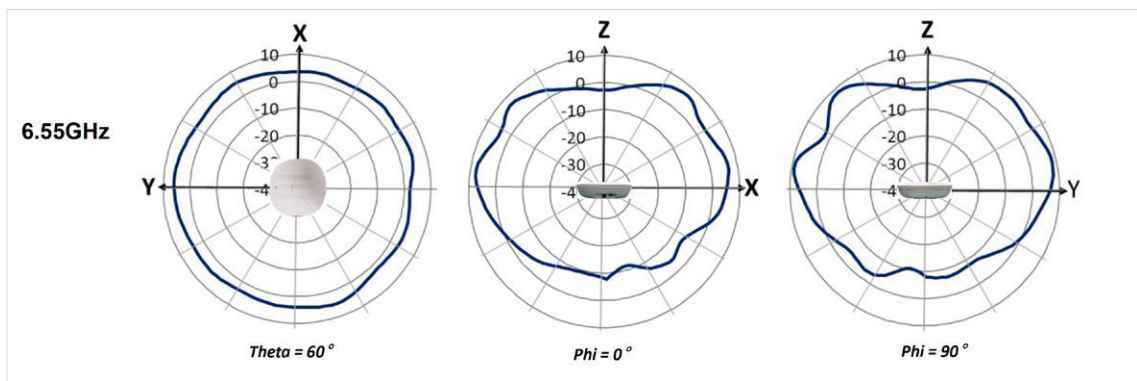
2.45GHz (ANT1- ANT2)



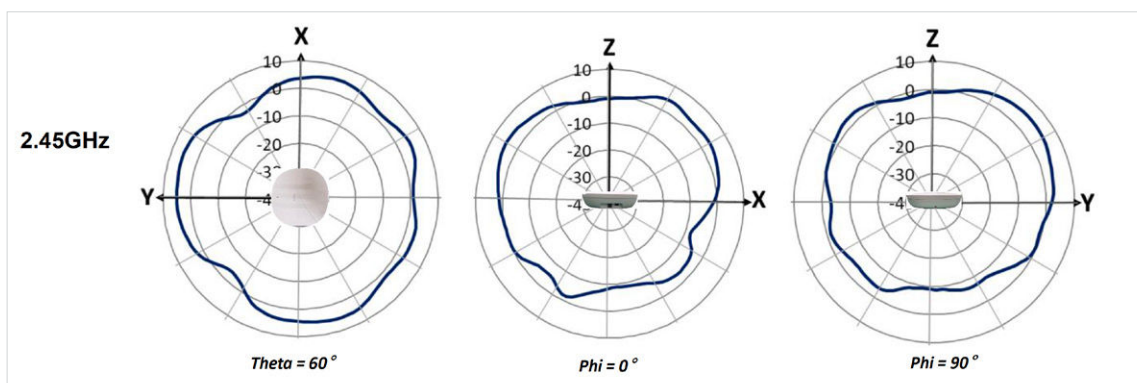
5.55GHz(ANT1-ANT4)



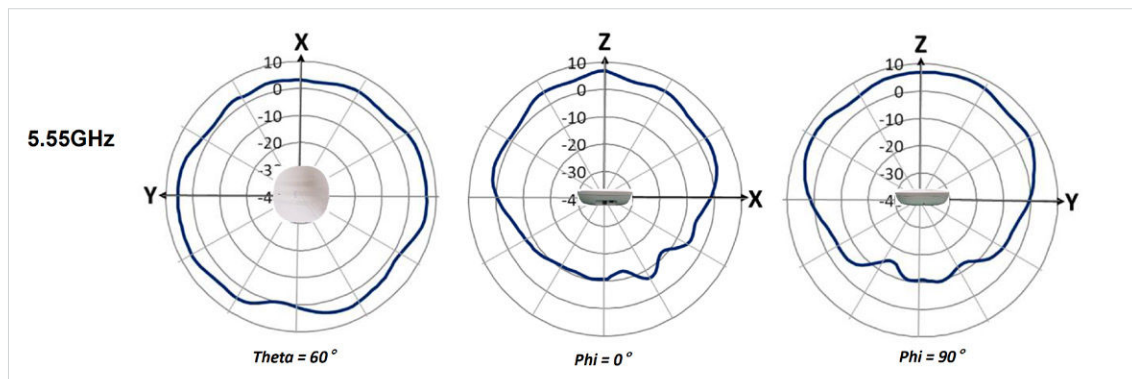
6.55GHz (ANT5-ANT8)



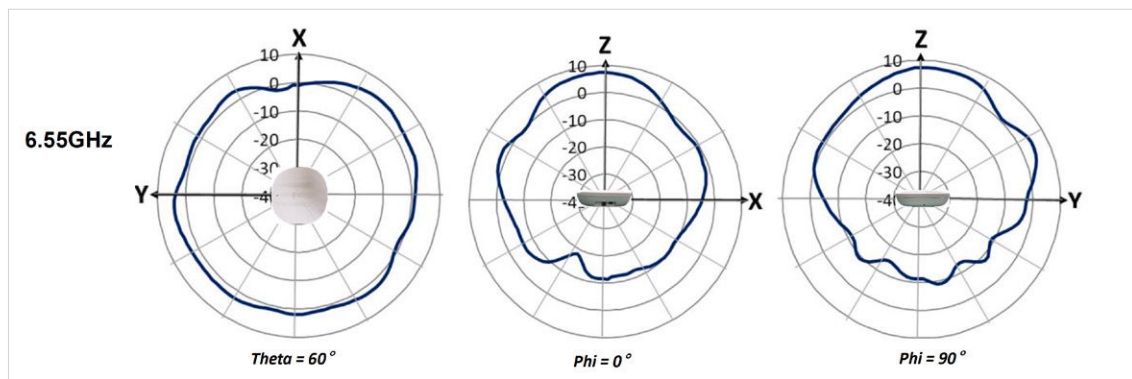
2.45GHz(ANT9-ANT10)



NWA 1200 – Scanning Radio - Composite Patterns Results_5.55GHz (ANT9- ANT10)



NWA 1200 – Scanning Radio - Composite Patterns Results_6.55GHz (ANT9-ANT10)



Warranty & Support

All Nile access points include 24x7 AI-driven cloud monitoring and lifecycle automation delivered through the Nile autonomous AIOps Command Center. Performance-based service options include a financially backed Service Guarantee with service credits. Hardware replacement options include expedited RMAs aligned to the selected tier and region.

Ready to Get Started?

Request a Demo