

Expanding MicroPoP Coverage

N5-360 Antenna



Introducing the industry's first 4-port, beamforming, 360° antenna specifically designed exclusively for Mimosa's A5c access point. The N5-360 antenna's unique design incorporates quad-180° overlapping antenna polarizations, doubling the coverage of Mimosa MicroPoP deployments with 3 dB of beamforming gain. The N5-360 boosts throughput by providing balanced dual-stream coverage over 360° of azimuth. Without sacrificing performance, the N5-360 operates over a wide frequency range, from 4.9 to 6.4 GHz, supporting licensed public safety bands and other expanded frequencies, where permitted by region.

Longer-Range MicroPoPs

Double the coverage area with 60% longer reach for MicroPoP deployments, easily handling deployments to homes within 500 m in dense, last mile, suburban areas.

Wide-Frequency Range

The only antenna available for use between 4.9 to 6.4 GHz, delivering incredible spectrum flexibility.

Optimized for 360° Throughput

Enhanced C5 and C5c subscriber speeds through new, balanced, multi-stream technology.

Beamforming Innovation

3 dB performance enhancement in a compact design, with all new quad-180° overlapping antenna polarizations that enable range-extending, beamforming technology.

Technical Specifications

Antenna

- **Gain:** 15 dBi
- **Frequency:** 4.9 to 6.4 GHz
- **Polarization:** Dual H+V
- **Azimuth Beamwidth:** 360° via 4 overlapping 180° sectors
- **Elevation Beamwidth (3 db):** 8°
- **Downtilt:** 2°
- **Cross-Polar Isolation:** >40 dB
- **Port-to-Port Isolation:** >25 dB
- **Impedance:** 50 Ω
- **Max Input Power:** 30 dBm

Physical

- **Dimensions:**
Height: 492 mm (19.37") including connectors
Width: 80 mm (3.15")
- **Weight:** 1.11 kg (2.45 lbs)
- **RF Connectors:** 4 N-type female
- **RF Connectors Position:** Bottom of antenna
- **Enclosure Characteristics:**
Outdoor, UV stabilized, engineered polymer
- **Mounting:** Dual-pole strap feed points integrated into painted metal base; Max pole diameter is 5.7 cm (2.25")
- **Wind Survivability:** 200 km/h (125 mph)
- **Wind Loading:** 4.77 kg @ 160 km/h (10.49 lbs @ 100 mph)

Environmental

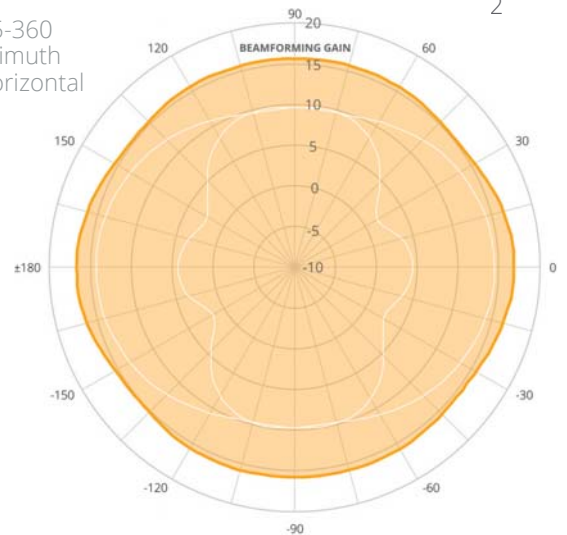
- **Outdoor Ingress Protection Rating:** IP67
- **Operating Temperature:** -40°C to +55°C (-40°F to 131°F)
- **Operating Humidity:** 5 to 100% condensing
- **Operating Altitude:** 4,420 m (14,500') max
- **Shock & Vibration:** ETS 300-019-2-4 class 4M5

Regulatory and Compliance

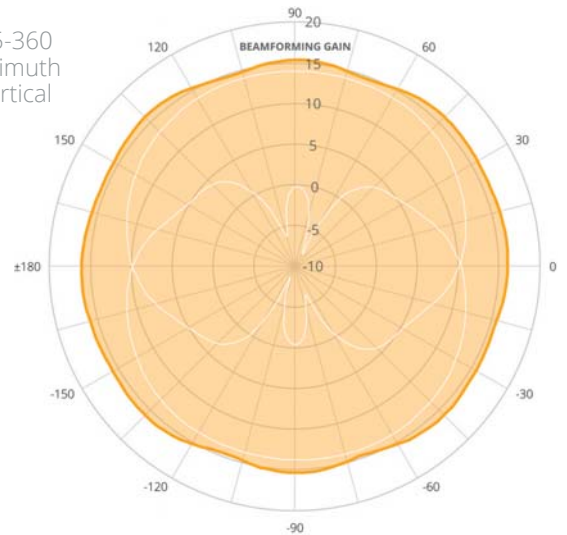
- **RoHS Compliance:** Yes



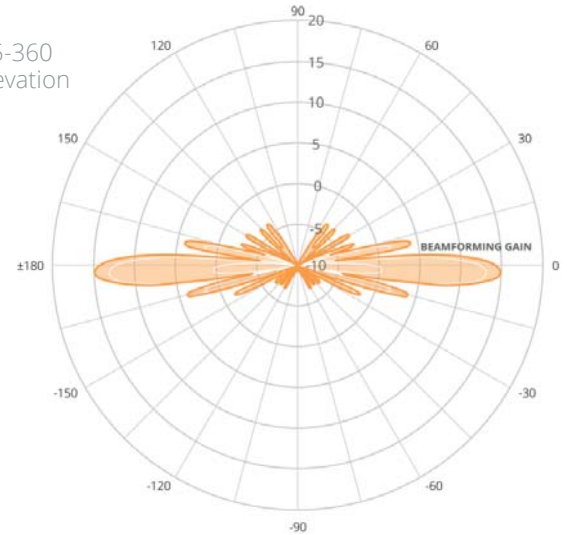
N5-360 Azimuth Horizontal



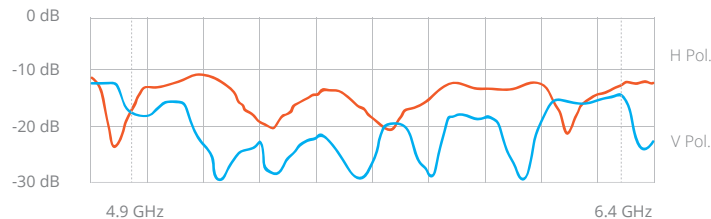
N5-360 Azimuth Vertical



N5-360 Elevation



N5-360 Return Loss



Mimosa Networks is the global technology leader in wireless broadband solutions, creating new competition in the industry to close the connectivity gap. Mimosa access, backhaul, and client solutions enable service providers to connect dense urban and hard-to-reach rural homes at a fraction of the cost of fiber. Mimosa's technology allows unprecedented levels of efficiency, enabling scarce spectrum to be concurrently shared across an entire network. Founded in 2012, Mimosa is VC-funded and deployed in over 155 countries worldwide.