





Part Number Vertical - NWT-ANT-2471-3V

Product Description

Our dual-band, vertically polarized omnidirectional wifi antenna provides the perfect balance between gain and vertical coverage. The wide vertical beamwidth allows it to reach great depths in open pit mining and similarly challenged topologies. The rugged design and build quality were created with heavy machinery in mind. These antennas are purpose built for industrial networks.

Product Overview

- Ultra-wide tri-band frequency coverage (2.4ghz, 5ghz, 6ghz) WiFi-6E Ready
- Single model for both 2.4ghz and 5ghz reduces stocking SKUs for spare inventory by 50%
- Wide vertical beamwidth, ideal in topology with broad variations in elevation
- Low VSWR, and stable gain across entire working frequency range
- Optimal pattern plots across entire working frequency range, which ensures excellent RF coverage in all directions

ELECTRICAL SPECIFICATIONS

Frequency Band	MHz	2400-2500	5100-5900
Gain (Average)	dBi	3.5	4
Polarization		Horizontal	Horizontal
H-Plane 3dB Beamwidth	Degree	360°	360°
E-Plane 3dB Beamwidth Avg/Max	Degree	50°/63°	50°/62°
Azimuth Plane Ripple	dB	3	5
VSWR		<1.5typ / <2.0 max	1.5 typ / <2.0 max
Return Loss (typical)	dB	-13.9	-13.9
Max Input Power per Port	W	30	30
Impedance	Ohms	50	50

MECHANICAL CHARACTERISTICS

Antenna Size	25mm x 150mm / 1" x 5.9"
Mounting Type	Pipe Mount (U bolt or Hose Clamp)
Mounting Mast size	30mm - 65mm / 1.18" - 2.55"
Antenna Color	Gray or customized
Connectors	N Female
Ice-load	25mm
Weight	0.42 kg / 0.9 lbs (U bolt) ; 0.13 kg / 0.29 lbs (hose clamp)
Packaging	Carton
Single Unit	Retail Box: 95mm x 65mm x 330mm / 3.74" x 2.56" x 13"
20 Units	Carton Box: 510mm x 345mm x 280mm / 20.07" x 13.58" x 11.02"

ENVIRONMENT

Waterproof level	IP66
Operating Temp Range	-40°C To +60°C / -40°F To 140°F
Salt Fog Exposure	120 hour
Wind Velocity Survival Rating	100 mph / 160km/h
Wind Velocity Operational	100 mph / 160km/h

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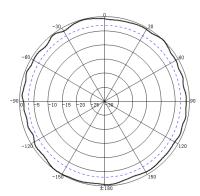
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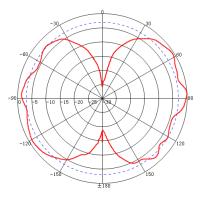


Pattern Plots



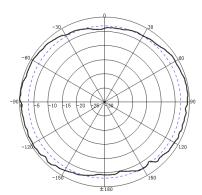
2450Mhz H-Plane







2450Mhz E-Plane

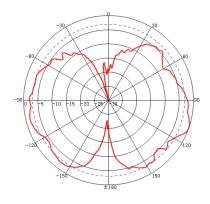


5200Mhz H-Plane

Freq:5200MHz Date:2023-04-21 Elevation:H-plane Polar-Across:Mair Polar-Across.main Polarization:Vertical Max-27.73dB HPBW(3dB):144.29" FBR:2.07dB in:2.93dB

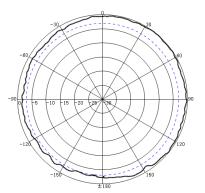
Freq:5800MHz Date:2023-04-21 Elevation:H-plane Polarization:Vertical Max:-37.59dB HPBW(3dB):327.29* FBR:0.77dB Poly:Coirs: 874B

ak Gain:3.87dB

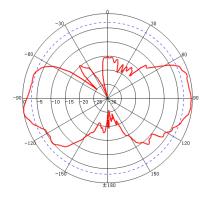




5200Mhz E-Plane







5800Mhz E-Plane

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