5G Mining Antenna – Rugged Wide-Band 2dBi 5G/LTE 698Mhz-3800Mhz Omni-Directional Antenna

PART NUMBER

NWT-ANT-638-2V

PRODUCT DESCRIPTION

Our wide-band 5G/LTE, omnidirectional 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 environments.

PRODUCT OVERVIEW

- Single model for the entire Sub-6 GHz 5G/LTE frequency range reduces stocking SKUs for spare inventory
- 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	698-960 MHz	1710-2700 MHz	3400-3800 MHz
Gain (Average)	2.3 dBi	2.5 dBi	2 dBi
Polarization	Vertical	Vertical	Vertical
H-Plane 3dB Beamwidth	360°	360°	360°
E-Plane 3dB Beamwidth (Avg)	75°	70°	80°
Azimuth Plane Ripple	75 dB	90 dB	
VSWR	< 2.0	< 1.5	< 1.8
Return Loss (typical)	-10.88 dB	-13.9 dB	-11.7 dB
Max Input Power per Port		30W	
Impedance		50 Ohms	

MECHANICAL CHARACTERISTICS

Antenna Size	60mm x 205mm / 2.36” x 8.07”
Mounting Type	Pipe Mount (U bolt or Hose Clamp)
Mounting Mast Size	30mm - 65mm / 1.18” - 2.55”
Antenna Color	Black
Connectors	N Female
Vibration Testing	IEC 60068-2-6 IEC 60068-2-64 IEC 60068-2-27 IEC 60068-2-31
Weight	0.85kg / 1.87 lbs (U bolt) ; 0.54kg / 1.19 lbs (hose clamp)
Packaging	Carton
Single Unit	Retail Box: 90mm x 75mm x 241mm /3.54” x 2.95” x 9.49”
20 Units	Carton Box: 380mm x 260mm x 400mm / 14.96” x 10.2” x 15.75”

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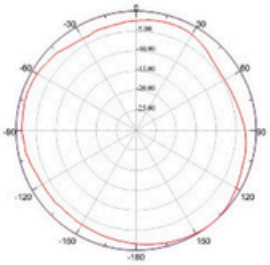
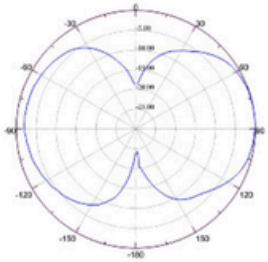
ENVIRONMENT

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

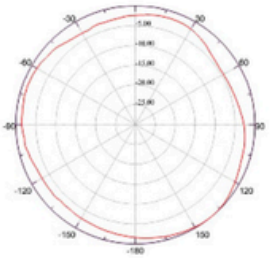
Pattern Plots



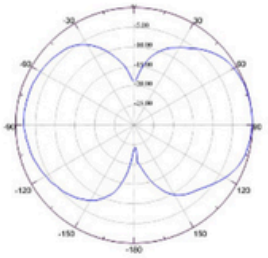
Hplane - **698Mhz**



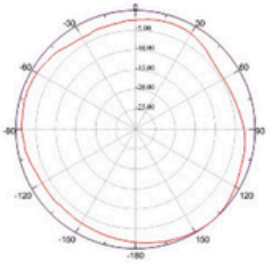
Eplane - **698Mhz**



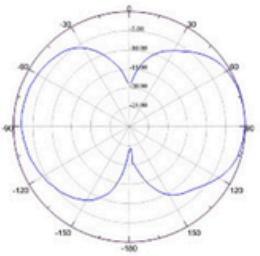
Hplane - **1700Mhz**



Eplane - **1700Mhz**



Hplane - **3800Mhz**



Eplane - **3800Mhz**

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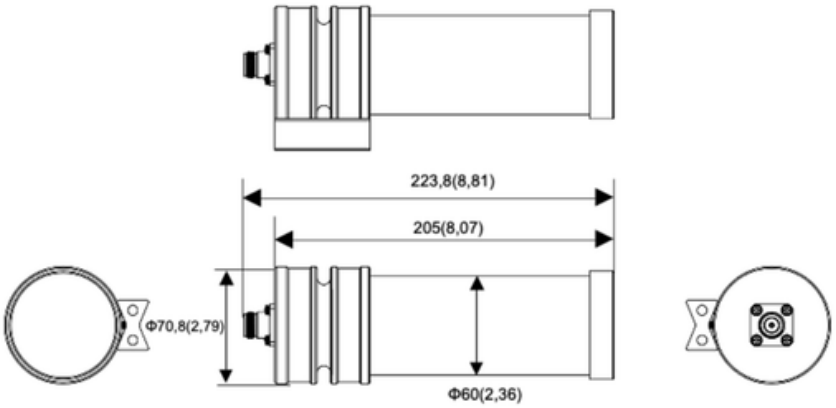

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