

# MT-953019/NVHD

2.3–2.7/4.9–5.925 GHz, 11.5/14 dBi Dual Band Quad Pol Directional Antenna



**Wireless Edge**

Antenna Solutions

An MTI Company

## Electrical

Regulatory Compliance	RoHS , CE 0682	
Frequency Range	2.3–2.7 GHz	4.9–5.925 GHz
Polarization	Vertical, Horizontal, $\pm 45^\circ$	
Peak Gain	11.5 dBi $\pm 1$ dB	14 dBi $\pm 1$ dB
Elevation Beam Width	30°	13°
Azimuth Beam Width	60°	
Elevation Beam Squint	$\pm 2.5^\circ$	$\pm 1^\circ$
Azimuth Beam Squint	$\pm 5^\circ$	
VSWR	2.2:1 @ 2.3 – 2.7 GHz 2.2:1 @ 4.9 – 5.25 GHz 2.0:1 @ 5.25-5.925 GHz	
Azimuth Side Lobes Level	-30 dB typ	
Elevation Side Lobes Level	-12 dB typ (-15dB at EL>30° ,freq range 5.15 – 5.25 GHz)	
Cross Polarization	-15 dB typ	
Isolation	-25 dB typ	
F/B Ratio	-35 dB typ	
Input Impedance	50 $\Omega$	
Input Power	6 W max	
Lightning Protection	DC Grounded	

## Mechanical

Dimensions	305x305x25 mm
Weight	1.2 Kg max
Connector	4 X N type Female
Radome	Plastic Polycarbonate RAL-9002
Base Plate	Aluminum with chemical conversion coating
Mounting Kit	MT-120018

## Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	IEC 68-2-1	72 h	-55 °C	
High Temperature	IEC 68-2-2	72 h	+71 °C	
Temp. Cycling	IEC 68-2-14	1 h	-45 °C +70 °C	3 Cycles
Vibration	IEC 60721-3-4	30 min/axis		Random 4M5
Shock Mechanical	IEC 60721-3-4			4M5
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP67
Solar Radiation	ASTM G53	1000 h		
Salt Spray	IEC 68-2-11 Ka	500 h		
Ice And Snow				25 mm Radial
Wind Speed	Survival			220 Km/h
	Operation			160 Km/h
Wind Load Survival				26.6 kg
Front Thrust				2.2 kg
Side Thrust				

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