MARS ANTENNAS & RF SYSTEMS LTD.

MA-WD56-DSV16

4.9-6.1 GHz Triple Polarizations MIMO Base Station Antenna, 90°

MARS Triple Polarization Sector antenna provides coverage of 4.9-6.1 GHz frequency band in a single antenna radome.
Additional Features:

- 3 Ports: Dual Slant (±45º) and Vertical Polarization.
- Specially designed for MIMO applications for optimal decorrelation.
- Light weight and durable construction.
- UV protected radome made of polycarbonate.
- Can be customized with customer defined back plane and different connector configurations.

Specifications

Electrical	
Frequency range	4.9-6.1 GHz
GAIN: Vertical Pol.	16 dBi
GAIN: Dual Slant Pol.	16 dBi
VSWR, max.	1.7 : 1
Polarization	Dual Slant: ± 45° and Vertical
3 dB Beam-Width-Azimuth, typ.	Dual Slant: 90° ; V- Pol 90°
3 dB Beam-Width-Elevation, typ.	Dual Slant: 8° ; V- Pol 8°
Front to Back Ratio, min.	-30 dB
Port to Port Isolation, min.	-30 dB
Input power, max	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
Mechanical	
Dimensions (HxWxD)	370 x 370 x 40 mm (14.5" x 14.5" x 1.6")
Connector	3 x N-Type Female
Weight	2.1 Kg.
Mounting	See ordering options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation
Environmental	
Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4,EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA-WD56-DSV16	Antenna Suited for MNT-22 (optional wall/pole adjustable mount)
MA-WD56-DSV16B	Antenna with MNT-22 mount

Patterns are available on our website

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