

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 ($\pm 45^\circ$) 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

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|---------------------------------|--|
| Frequency range | 4.9-6.1 GHz |
| GAIN: | Vertical Pol. 16 dBi |
| | Dual Slant Pol. 16 dBi |
| VSWR, max. | 1.7 : 1 |
| Polarization | Dual Slant: $\pm 45^\circ$ 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

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|--------------------|---|
| 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

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|-----------------------------|---|
| 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

MARS Antennas & RF Systems proprietary information

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