

MA-WA52-DP24

4.4 – 6.1 GHz Dual Polarization/Dual Slant Subscriber Antenna

MARS 5 GHz Dual Polarized Antenna designed to provide full coverage for the 5 GHz frequency band.

Additional Features:

- Dual slant if mounted diagonally.
- Efficient and stable performance.
- High gain/size ratio.
- Lightweight and durable construction.
- UV protected radome made of polycarbonate suitable for harsh weather installations.

MARS 5 GHz Dual Polarized Antenna & Enclosure Solution comprises of waterproof 5 GHz Dual Polarized Antenna and weatherproof enclosure with provisions for Az/EI Mounting device.

This solution enables WISP/Integrator to design his own low cost, weatherized subscriber unit, saving high costs of special antenna-radio integration.



Specifications

Electrical	
Frequency range	4.4 – 6.1 GHz
Gain	24 ± 1 dBi
VSWR	typ. 1.7: 1 max. 2.0: 1
Polarization	Dual pole Linear, Vertical & Horizontal
3dB Beam-Width, H-Plane, typ.	8°
3dB Beam-Width, E-Plane, typ.	8°
Side Lobes,	typ. -12 dB min. -10 dB
Cross Polarization, typ.	-23 dB
Front to Back Ratio, min.	-35 dB
Port to Port Isolation,	typ. -30 dB min. -28 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"x1.6")
Connector	2 x N-type Female
Weight	1.8 kg.
Mounting	See Ordering Options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation.
Environmental	
Operating Temperature Range	-55°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-WA52-DP24	Antenna 2 x N-Type Female connectors Suited for MNT-22 mount
MA-WA52-DP24B	Antenna 2 x N-Type Female connectors with MNT-22 mount

MARS Antennas & RF Systems proprietary information

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