

2.3-2.7 GHz Triple Polarization MIMO Subscriber Antenna

MA-WA24-TPMIMO

MARS Triple Polarization antenna provides coverage of 2.3-2.7 GHz frequency band in a single antenna radome.

Additional Features:

- specially designed for MIMO applications
- light weight and durable construction
- UV protected radome made of plastic
- can be customized with customer defined back plane and different connector configurations



Specifications:

Electrical

Model	Vertical Polarization	Dual Slant Polarization
Frequency range	2.3 - 2.7 GHz	2.3 - 2.7 GHz
Gain	15 dBi $\hat{A}\pm 1$ dBi	12 dBi $\hat{A}\pm 1$ dBi
VSWR, max.	1.7:1	1.7:1
3 dB Beam-Width, H-Plane, typ.	37 °	38 °
3 dB Beam-Width, E-Plane, typ.	21 °	38 °
Side Lobes, min.	-12 dB	-12 dB
Polarization	Dual Slant $\hat{A}\pm 45\hat{A}^\circ$ and Vertical	
Front to Back Ratio, min.	-30 dB	
Input power, max	10 Watt	
Input Impedance	50 Ohm	
Lightning Protection	DC Grounded	

Mechanical

Dimensions (HxWxD)	305 x 305 x 15 mm (12"x 12"x 0.6")
Weight	1.5 kg
Connector	3 x N-Type Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected Polycarbonate
Mount	MNT-22

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

Antenna Suited for MNT-22 (optional wall/pole adjustable mount)	MA-WA24-TPMIMO
Antenna with mount	MA-WA24-TPMIMO B

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