

MA-WA27TB-DP14

698-960 MHz & 1695-2700 MHz & 5150-5925 MHz Stadium Dual Pol Directional Antenna

MARS new **Triple BAND, DUAL POL** antenna is designed especially for **arenas and stadiums** that have to supply high capacity and reliable wireless data.

The MARS MA-WA6955-TBDP14 provides solutions for services such as LTE, Cellular (2G, 2.5G and 3G), Wi-Fi and WiMAX applications.

The antenna is PIM certified, thus making it suitable for all multi-carrier systems.

Additional Features:

- Efficient and stable performance with 12-14 dBi of gain
- UV protected radome suitable for harsh environment installations
- Durable construction and weather resistant
- Easy mounting allowing Az/EI adjustment
- Aesthetic design
- Wind load up to 200 km/h



Available in iBwave database

Specially designed for Arenas and Stadiums

Specifications

Electrical

Frequency range		698-960 MHz	1695-2700 MHz	5150-5925 MHz
Gain, typ.	V-pol	12 dBi	13 dBi	14 dBi
	H-pol	13 dBi	13 dBi	14 dBi
VSWR, max.		2.0 : 1	2.0 : 1	2.0 : 1
Polarization	Dual Pol	Vertical & Horizontal		
Port to Port Isolation, min.		-22 dB	-37 dB	-24 dB
3dB Beam-Width, Azimuth, typ.		35°	35°	35°
3dB Beam-Width, Elevation, typ.		35°	35°	35°
Front to Back Ratio, min.		-22 dB		
PIM, 3 rd order, 2X20W		-150 dBc		
Input power, max.		50 Watt		
Impedance		50 Ohm		

Mechanical

Dimensions (HxWxD)	800 x 600 x 110 mm (31.5" x 23.6" x 4.33")
Connector	See Ordering Options
Weight	~ 6.1 kg
Mounting	MNT-25
Radome	UV Protected Plastic
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-65
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA-WA27TB-DP14	Antenna 2 x N-Type Female connectors (2 x 698-960 MHz & 1695-2700 MHz and 2 x 5150-5925 MHz) Suited for MNT-22 mount
MA-WA27TB-DP14DIN	Antenna 2 x 4.3-10 Female connectors (2 x 698-960 MHz & 1695-2700 MHz and 2 x 5150-5925 MHz) Suited for MNT-22 mount
MA-WA27TB-DP14B	Antenna 2 x N-Type Female connectors (2 x 698-960 MHz & 1695-2700 MHz and 2 x 5150-5925 MHz) with MNT-22 mount
MA-WA27TB-DP14DINB	Antenna 2 x 4.3-10 Female connectors (2 x 698-960 MHz & 1695-2700 MHz and 2 x 5150-5925 MHz) with MNT-22 mount

Mars Antennas & RF Systems proprietary information

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