

MA-WA82220DB-DP14

698-960 MHz & 1700-2700 MHz Stadium Dual Band & Dual Pol Directional Antenna

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

MARS MA-WA82220-DBDP14 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 12-13 dBi of gain.
- UV protected radome suitable for harsh environment installations
- Durable construction
- Easy mounting allowing Az/EI adjustment
- Aesthetic design
- Weatherized and durable
- Wind survival rating of 200 km/h

Available in **iBwave database**



Specially designed for Stadiums

Specifications

		Electrical	
Frequency range		698-960 MHz	1700-2700 MHz
Gain, typ.	V-pol H-pol	12 dBi 13 dBi	13 dBi 13 dBi
VSWR, max.		2.0 : 1	
Polarization	Dual Pol	Vertical & Horizontal	
Port to Port Isolation, min.		-22 dB	-37 dB
3dB Beam-Width, Azimuth, typ.		35°	35°
3dB Beam-Width, Elevation, typ.		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		2 x N-type Female
Weight		6 Kg.
Mounting		See Ordering Options
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-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-WA82220DB-DP14	Antenna 2 x N-type Female connectors Suited for MNT-25 mount
MA-WA82220DB-DP14D	Antenna 2 x 7/16 Female connectors Suited for MNT-25 mount
MA-WA82220DB-DP14MD	Antenna 2 x 4.1/9.5 Female connectors Suited for MNT-25 mount
MA-WA82220DB-DP14B	Antenna 2 x N-type Female connectors with MNT-25 mount

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MARS reserves the right to make technical changes or modifications to any of its products and specifications without prior notice and without implementing such changes to prior supplied products. Product images are representative and indicative only. Warranty terms and general conditions of sale are applicable on any purchase of any product, available on MARS website.

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