

MA-WA22-DP14

1.7-2.7 GHz Stadium Dual Polarization Antenna

MARS 1.7-2.7 GHz Dual Polarized wide band antenna specially designed for arenas and stadiums that have to supply high capacity and reliable wireless data.

The MA-WA22-DP14 antenna designed for LTE, Wi-Fi, LAN, MMDS, WLL and WiMAX applications.

Additional Features:

- Exceptionally efficient performance.
- High gain/size ratio.
- Aesthetic design.
- Weatherized and durable.
- Wind survival rating of 200 km/h.



Available in iBwave database

Specially designed for Stadiums

Specifications

Electrical

| | | |
|-------------------------------|-------------------------------|-------------|
| Frequency range | 1.7-2.2 GHz | 2.2-2.7 GHz |
| Gain, typ. | 13 dBi | 14 dBi |
| VSWR, max. | 2.0 : 1 | 1.7 : 1 |
| Polarization | Linear, Vertical & Horizontal | |
| 3dB Beam-Width, H-Plane, typ. | 33° | |
| 3dB Beam-Width, E-Plane, typ. | 33° | |
| Cross Polarization, typ. | -20 dB | |
| Front to Back Ratio, min. | -20 dB | |
| Port to Port Isolation, min. | -30 dB | -40 dB |
| Input power, max. | 50 Watt | |
| Input Impedance | 50 Ohm | |
| Lightning Protection | DC Grounded | |

Mechanical

| | |
|--------------------|--|
| Dimensions (HxWxD) | 430 x 240 x 48 mm (16.93" x 9.45" x 1.89") |
| Connector | 2 x N-type, Female |
| Weight | 1 kg. |
| Mounting | See Ordering Options |
| Radome | UV Protected Polycarbonate |
| Back Plane | Aluminum protected through chemical passivation. |

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-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-WA22-DP14 | Antenna 2 x N-type, Female connectors Suited for MNT-22 mount |
| MA-WA22-DP14B | Antenna 2 x N-type, Female connectors with MNT-22 mount |

MARS Antennas & RF Systems proprietary information

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3 Hamanor st. Holon 5886103, P.O.Box 1852 Holon 5811801, Israel

Tel: +972-3-5599661 • Fax: +972-3-5599677 • e-mail: mars@marsant.co.il • web: www.mars-antennas.com