

## MA-WD55-16

### 5 GHz Base Station Antenna, 90°

MARS 90° Broadband Sector Antenna provides a cost effective solution for large scale WLL, WLAN, H-LAN, ISM, UNII, Public Safety, Municipal MESH Networks and Point-to-Multi-Point applications.

Additional Features:

- Stable performance with 16 dBi of gain.
- Small size allowing easy blending with any environment.
- Tilt mount allowing quick and easy installation.
- UV protected radome suitable for harsh environment installations.



### Specifications

#### Electrical

|                                |                              |
|--------------------------------|------------------------------|
| Frequency range                | 4.9-6.1 GHz                  |
| GAIN, typ.                     | 16 dBi                       |
| VSWR, max.                     | 1.8 : 1                      |
| Polarization                   | Linear, Vertical             |
| 3 dB Beam-Width, H-Plane, typ. | 90°                          |
| 3 dB Beam-Width, E-Plane, typ. | 8°                           |
| Side Lobes, min.               | ETSI EN 302 085 V1.2.3 – CS1 |
| Cross Polarization, min.       | ETSI EN 302 085 V1.2.3 – CS1 |
| Front to Back Ratio, min.      | ETSI EN 302 085 V1.2.3 – CS1 |
| Input power, max.              | 50 Watt                      |
| Input Impedance                | 50 Ohm                       |
| Lightning Protection           | DC Grounded                  |

#### Mechanical

|                    |   |
|--------------------|---|
| Dimensions (HxWxD) | 573 x 95 x 53 mm (22.6" x 3.7" x 2.1")          |
| Weight             | 700 gr.   |
| Connector          | N-Type, Female                                  |
| Back Plane         | Aluminum protected through chemical passivation |
| Radome             | UV Protected Polycarbonate                      |
| Mount              | See ordering options                            |

#### 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                  |
| Ice and Snow                | 25mm radial (survival)                    |

#### Standard Compliance

ETSI EN 302 085 V1.2.3 – CS1

### Ordering Options

|             |   |
|-------------|---|
| MA-WD55-16  | Antenna Suited for MNT-22 (optional wall/pole adjustable mount) |
| MA-WD55-16B | Antenna with MNT-22 mount                                       |

Patterns are available on our website

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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