

## MA-WD52-DP15

### 4.4 – 6.1 GHz Dual Polarized Base Station Antenna, 90°

MARS Dual Polarized Base Station & Subscriber antennas provide a full coverage for the 5GHz frequency band (4.4-6.1 GHz).

The Antennas provide a cost effective solution for large scale of applications (WLL, WLAN, H-LAN, ISM, UNII, Public Safety, Municipal MESH Networks, Point-to-Multi-Point applications and more). Tilt mount allowing quick and easy installation.

UV protected radome suitable for harsh environment installations.



## Specifications

### Electrical

| Frequency range                 | 4.4 – 5.1 GHz                                    | 5.1 – 6.1 GHz                                    |
|---------------------------------|--|--|
| Gain, typ.                      | 15.0 ± 0.5 dBi @ H-pol<br>15.5 ± 0.7 dBi @ V-pol | 15.5 ± 0.5 dBi @ H-pol<br>16.0 ± 0.8 dBi @ V-pol |
| VSWR, max. typ.                 | 2.0 : 1<br>1.7 : 1                               |  |
| Polarization                    | Dual-Pol   | Vertical & Horizontal                            |
| Port to Port Isolation, min.    | -46 dB   |  |
| Side Lobes, Elevation, typ.     | -10 dB   |  |
| Cross Polarization, min.        | -16 dB   |  |
| 3dB Beam-Width, Azimuth, typ.   | 90°  |  |
| 3dB Beam-Width, Elevation, typ. | 8°   |  |
| Front to Back Ratio, min        | -26 dB   |  |
| Input power, max.               | 50 Watt  |  |
| Impedance                       | 50 Ohm   |  |
| Lightning Protection            | DC Grounded                                      |  |
| Impedance                       | 50 Ohm   |  |

### Mechanical

|                    |  |
|--------------------|--|
| Dimensions (HxWxD) | 370 x 370 x 40 mm (14.5" x 14.5" x 1.6" )        |
| Connector          | See Ordering Options                             |
| Weight             | 2 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-WD52-DP15  | Antenna with 2 x N-Type Female connectors suited for MNT-22 Mount |
| MA-WD52-DP15B | Antenna with 2 x N-Type Female connectors with MNT-22 Mount       |

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