

MA-WA18-1X

1.8 GHz Directional Antenna

MARS 1.8 GHz Antenna is a flat panel that provides directional coverage of the GSM 1800 band. This panel antenna replaces Yagis previously used for same purpose.

Additional Features:

- Effective co-siting performance.
- Excellent size/gain ratio.
- Weatherized and robust.
- Suitable for heavy duty outdoor applications.



Specifications

Electrical

| | |
|--------------------------------|------------------|
| Frequency range | 1.71-1.88GHz |
| GAIN, min. | 14 dBi |
| VSWR, max. | 1.5 : 1 |
| Polarization | Linear, Vertical |
| 3 dB Beam-Width, H-Plane, typ. | 30° |
| 3 dB Beam-Width, E-Plane, typ. | 30° |
| Side Lobes, min. | -12 dB |
| Cross Polarization, min. | -15 dB |
| Front to Back Ratio, min. | -20 dB |
| Input power, max. | 50 Watt |
| Input Impedance | 50 Ohm |
| Lightning Protection | DC Grounded |

Mechanical

| | |
|--------------------|--|
| Dimensions (HxWxD) | 305 x 305 x 25 mm (12" x 12" x 1") |
| Weight | 1.2 kg. |
| 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 60721-34 |
| 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 |
| Ice and Snow | 25mm radial (survival) |

Ordering Options

| | |
|----------------|--|
| MA-WA18-1XPM | Antenna with integral Pole Mount includes stainless steel brackets |
| MA-WA18-1XMNT | Antenna Suited for MNT-22 (optional wall/pole adjustable mount) |
| MA-WA18-1XMNTB | Antenna with MNT-22 mount |

Patterns are available on our website

MARS Antennas & RF Systems proprietary information

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