

MA-WE90-7X

850-960 MHz Base Station Antenna, 120°

MARS 850-960 MHz Base Station Antenna provides a robust and efficient Point-to-Multipoint solution for LoRaWAN® and ISM systems.

Additional Features:

- 120° azimuthal coverage.
- Suitable for harsh environment installations.
- DC grounded.
- Easy mounting allows to obtain required down tilt degree with the optional MNT-25 mount.



Specifications

Electrical

Frequency range	850-960 MHz
GAIN, min.	8.5.-11.5 dBi
VSWR, max.	2 : 1
Polarization	Linear, Vertical
3 dB Beam-Width, Horizontal Plane, typ.	120°
3 dB Beam-Width, Elevation Plane, typ.	15°
Side Lobes, min.	-11 dB
Cross Polarization, min.	-15 dB
Front to Back Ratio, min.	-18 dB
Input power, max.	50 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	1208 x 328 x 183 mm (47.56" x 12.91" x 7.20")
Weight	4.5 kg.
Connector	N-Type, Female
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected, Plastic
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)

Ordering Options

MA-WE90-7X	Antenna Suited for MNT-25 (optional tilt mount)
MA-WE90-7XB	Antenna with MNT-25 mount

Patterns are available on our website

MARS Antennas & RF Systems proprietary information

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