

## MA-WA56-DP25N

### 4.9-5.875 GHz Dual Polarized/ Dual Slant Antenna

MARS 5 GHz Dual Polarized Antenna designed to provide full coverage for the 5 GHz frequency band.

Additional Features:

- Dual slant if mounted diagonally.
- Efficient and stable performance.
- High gain/size ratio.
- Light weight and durable construction.
- UV protected radome made of polycarbonate suitable for harsh weather installations.

MARS 5 GHz Dual Polarized Antenna & Enclosure Solution comprises of waterproof 5 GHz Dual Polarized Antenna and weatherproof enclosure with provisions for Az/EI Mounting device. This solution enables WISP/Integrator to design his own low cost, weatherized subscriber unit, saving high costs of special antenna-radio integration.



### Specifications

#### Electrical

Frequency range		4.9-5.875 GHz
GAIN	V-Pol	23.5 ± 1 dBi
	H-Pol	24.5 ± 1dBi
VSWR, max.		1.7 : 1
Polarization	Dual Pole	Linear, Vertical & Horizontal
	Dual Slant (opt.)	±45°
3 dB Beam-Width, H-Plane, typ.		7°-9°
3 dB Beam-Width, E-Plane, typ.		7°-9°
Side Lobes, min.		ETSI TS3, TS4, TS5
Cross Polarization, typ.		-25 dB
Port to Port Isolation,typ.		-30 dB
Front to Back Ratio, min.		ETSI TS3, TS4, TS5
Input power, max.		5 Watt
Input Impedance		50 Ohm
Lightning Protection		DC Grounded

#### Mechanical

Dimensions (HxWxD)	370 x 370 x 40 mm (14.5" x 14.5" x 1.6")
Connector (without enclosure)	2 x N-Type, Female
Connector (with enclosure)	2 x SMA Female
Weight	1.8 kg.
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Enclosure dimensions (external)	287 x 287 x 68 mm.
Enclosure dimensions (internal)	260 x 260 x 45 mm (10.2" x 10.2" x 1.8")
Enclosure internal plate dimensions	245 x 245 mm, height of PCB (from Base for RF to backplane) - 55 mm
Mounting	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-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-WA56-DP25N	Antenna Suited for MNT-22 (optional wall/pole adjustable mount)
MA-WA56-DP25NB	Antenna with MNT-22 mount
MA-WA56-DP25SMELY	Antenna with large enclosure, 2 x SMA Female Connector and MNT-22
MA-WA56-DP25SMELZ	Antenna with large enclosure, 2 x SMA Female Connector with PEMs and MNT-22

Patterns are available on our website

MARS Antennas & RF Systems proprietary information

MARS reserves the right to make technical changes or modifications to any of its products and specifications without prior notice and without implementing such changes to prior supplied products. Product images are representative and indicative only. Warranty terms and general conditions of sale are applicable on any purchase of any product, available on MARS website.

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