

## MA-WA56-DP28N

### 4.7-6.425 GHz High Gain, Wideband, Dual Polarized/Dual Slant Antenna

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

Additional Features:

- Efficient and stable performance.
- High gain/size ratio.
- Durable construction.
- UV protected radome made of polycarbonate allowing harsh weather installations.



### Specifications

#### Electrical

Frequency range		4.7-4.9 GHz	4.9-5.15 GHz	5.15-5.875 GHz	5.875-6.1GHz	6.1-6.425 GHz
GAIN	V-Pol:	28 ± 1dBi	28.5 ± 0.5 dBi	29 ± 0.5 dBi	28.5 ± 0.5 dBi	27.5 ± 1 dBi
	H-Pol:	27 ± 1 dBi	28 ± 0.5 dBi	28.5±0.5 dBi	28 ± 1 dBi	27 ± 1 dBi
VSWR, max.		2.7: 1	2 : 1	1.7 : 1	2 : 1	2.6 :1
Polarization	Dual Pole	Dual Polarization V&H				
	Dual Slant (opt.)	±45°				
3dB Beam-Width, H-Plane, typ.		5.5°	5.2°	4.7°	4.4°	5°
3dB Beam-Width, E-Plane, typ.		5.5°	5.2°	4.7°	4.4°	5°
Side Lobes, min.		ETSI TS3				ETSI TS 2
Cross Polarization, min.	V-Pol:	-26 dB	-26 dB	-23 dB	-23 dB	-23 dB
	H-Pol:	-23 dB	-25 dB	-23 dB	-20 dB	-15 dB
Front to Back Ratio, min.		ETSI TS3				
Port to Port Isolation, typ.		-30 dB				
Input power, max.		10 Watt				
Input Impedance		50 Ohm				
Lightning Protection		DC Grounded				

#### Mechanical

Dimensions (HxWxD)	600 x 600 x 22 mm (23.5" x 23.5" x 0.86")
Weight	4.7 kg.
Connector (without enclosure)	2 x N-Type Female
Connector (with enclosure)	2 x SMA
Back Plane	Aluminum; Protected through chemical passivation
Radome	UV Protected, Polycarbonate
Enclosure - Small	171 x 167 x 68 mm. (External dimension)
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-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-DP28N	Antenna Suited for MNT-60A (optional wall/pole adjustable mount)
MA-WA56-DP28NB	Antenna with MNT-60A mount
MA-WA56-DP28NSMESY	Antenna Including MNT-60A (2 x SMA with Small Enclosure)
MA-WA56-DP28NSMELZ	Antenna Including MNT-60A (2 x SMA with Large Enclosure)

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