





MA-WD670-5

380-960 MHz Base Station Antenna 90°

The MARS Broadband Base Station Antenna covers TETRA, 600MHz, LTE 700 & LTE 800 MHz to support public safety and first responders.

The antenna can be easily used either for Indoor or Outdoor Applications and features different mounting options. Additional Features:

- Excellent and stable performance.
- UV protected antenna radome.
- Suitable for both Indoor and Outdoor installations.
- DC grounded.

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ElectricalFrequency range 380 -960 MHzGain typ. $6.5 \pm 0.5 dBi$ VSWR $2.0:1 typ$ ($2.7:1 max$)PolarizationLinear, Vertical or Horizontal3dB Beam-Width, H-Plane, typ. 66° -110° (across the frequency band)3dB Beam-Width, E-Plane, typ. 30° -60° (across the frequency band)3dB Beam-Width, E-Plane, typ. 30° -60° (across the frequency band)3dB Beam-Width, E-Plane, typ. 30° -60° (across the frequency band)3dB Beam-Width, E-Plane, typ. $1.5 tB$ Input power, max. $50 Watt$ Input Impedance $50 Ohm$ Lightning ProtectionDC GroundedMechanicalDimensions (HxWxD) $500 x 345 x 140 mm (19.7" x 13.6" x 5.5")$ ConnectorN-Type, FemaleWeight $1.5 Kg$ MountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range -40° C to $+65^{\circ}$ CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4, EN 302 085 (Annex A.1.1)Salt FogAccording to IEC 68-2-11	opeonioations							
Gain typ. $6.5 \pm 0.5 dBi$ VSWR $2.0:1$ typ ($2.7:1$ max)PolarizationLinear, Vertical or Horizontal3dB Beam-Width, H-Plane, typ. $66^{\circ}-110^{\circ}$ (across the frequency band)3dB Beam-Width, E-Plane, typ. $30^{\circ}-60^{\circ}$ (across the frequency band)Front to Back Ratio, typ. $-15 dB$ Input power, max. 50 WattInput Impedance 50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD) $500 \times 345 \times 140$ mm ($19.7" \times 13.6" \times 5.5"$)ConnectorN-Type, FemaleWeight 1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range -40° C to $+65^{\circ}$ CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Electrical							
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PolarizationLinear, Vertical or Horizontal3dB Beam-Width, H-Plane, typ.66°-110° (across the frequency band)3dB Beam-Width, E-Plane, typ.30°-60° (across the frequency band)Front to Back Ratio, typ15 dBInput power, max.50 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)500 x 345 x 140 mm (19.7" x 13.6" x 5.5")ConnectorN-Type, FemaleWeight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)		6.5 ± 0.5 dBi						
3dB Beam-Width, H-Plane, typ.66°-110° (across the frequency band)3dB Beam-Width, E-Plane, typ.30°-60° (across the frequency band)Front to Back Ratio, typ15 dBInput power, max.50 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)500 x 345 x 140 mm (19.7" x 13.6" x 5.5")ConnectorN-Type, FemaleWeight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)								
3dB Beam-Width, E-Plane, typ.30°-60° (across the frequency band)Front to Back Ratio, typ15 dBInput power, max.50 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)500 x 345 x 140 mm (19.7" x 13.6" x 5.5")ConnectorN-Type, FemaleWeight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4, EN 302 085 (Annex A.1.1)	Polarization	Linear, Vertical or Horizontal						
Front to Back Ratio, typ15 dBInput power, max.50 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)500 x 345 x 140 mm (19.7" x 13.6" x 5.5")ConnectorN-Type, FemaleWeight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)		66°-110° (across the frequency band)						
Input power, max.50 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)500 x 345 x 140 mm (19.7" x 13.6" x 5.5")ConnectorN-Type, FemaleWeight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	3dB Beam-Width, E-Plane, typ.							
Input Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)500 x 345 x 140 mm (19.7" x 13.6" x 5.5")ConnectorN-Type, FemaleWeight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Front to Back Ratio, typ.	-15 dB						
Lightning ProtectionDC GroundedMechanicalDimensions (HxWxD)500 x 345 x 140 mm (19.7" x 13.6" x 5.5")ConnectorN-Type, FemaleWeight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)		50 Watt						
MechanicalDimensions (HxWxD)500 x 345 x 140 mm (19.7" x 13.6" x 5.5")ConnectorN-Type, FemaleWeight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)		50 Ohm						
Dimensions (HxWxD)500 x 345 x 140 mm (19.7" x 13.6" x 5.5")ConnectorN-Type, FemaleWeight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Lightning Protection	DC Grounded						
ConnectorN-Type, FemaleWeight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Mechanical							
Weight1.5 KgMountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)		500 x 345 x 140 mm (19.7" x 13.6" x 5.5")						
MountingSee Ordering OptionsRadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Connector	N-Type, Female						
RadomeUV Protected PlasticBack PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Weight	1.5 Kg						
Back PlaneAluminum protected through chemical passivation.EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Mounting	See Ordering Options						
EnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Radome	UV Protected Plastic						
Operating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Back Plane	Aluminum protected through chemical passivation.						
VibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)		Environmental						
Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Operating Temperature Range	-40°C to +65°C						
FlammabilityUL94Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Vibration	According to IEC 60721-3-4						
Water ProofingIP65HumidityETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Wind Load	200 Km/h (Survival)						
Water Proofing IP65 Humidity ETS 300 019-1-4,EN 302 085 (Annex A.1.1)	Flammability							
Humidity ETS 300 019-1-4,EN 302 085 (Annex A.1.1)		IP65						
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Ordering Options				
MA-WA670-5	Antenna Suited for MNT-22			
MA-WA670-5B	Antenna with MNT-22 mount			

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.

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