



## MA-CM36-15

## Multi Band Omni Antenna

MARS Multi Band Omni Antenna covers all the bands for 2G, 2.5G and 3G cellular, as well as ISM, WLAN and Bluetooth.

The antenna is aesthetic, small and has unobtrusive profile that blends easily with any environment.

The antenna is easy-installed and is highly recommended as an outstanding logistic solution for In-Building Installations.



## **Specifications**

StandardSMR, AMPS, CDMA, TDMA, GSM 900PCS, DECT, GSM 1900, UMTSBluetooth, ISM, WLANFrequency range806-960 MHz1.71-2.17 GHz2.3-2.7 GHzGAIN, typ.2 dBi3-4 dBi5 dBiVSWR, max.2 : 11.5 : 11.6 : 1PolarizationLinear, VerticalInput power, max.50 WattInput power, max.50 OhmLightning ProtectionDC GroundedWeight220 gr.ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4	Electrical				
900UMTSWLANFrequency range806-960 MHz $1.71-2.17 \text{ GHz}$ $2.3-2.7 \text{ GHz}$ GAIN, typ.2 dBi $3-4 dBi$ $5 dBi$ VSWR, max. $2:1$ $1.5:1$ $1.6:1$ PolarizationLinear, VerticalInput power, max. $50 \text{ Watt}$ Input Impedance $50 \text{ Ohm}$ Lightning ProtectionDC GroundedMechanicalDimensions (HxWxD)Base Diameter - 205 mm, Height - 89 mmWeight220 gr.ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4		SMR, AMPS,	PCS, DECT,	Bluetooth,	
Frequency range806-960 MHz1.71-2.17 GHz2.3-2.7 GHzGAIN, typ.2 dBi3-4 dBi5 dBiVSWR, max.2 : 11.5 : 11.6 : 1PolarizationLinear, VerticalInput power, max.50 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)Base Diameter - 205 mm, Height - 89 mmWeight220 gr.ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4	Standard	CDMA, TDMA, GSM	GSM 1900,	ISM,	
GAIN, typ.2 dBi3-4 dBi5 dBiVSWR, max.2 : 11.5 : 11.6 : 1PolarizationLinear, VerticalInput power, max.50 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)Base Diameter - 205 mm, Height - 89 mmWeight220 gr.ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4		900	UMTS	WLAN	
VSWR, max.2:11.5:11.6:1PolarizationLinear, VerticalInput power, max.50 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)Base Diameter - 205 mm, Height - 89 mmWeight220 gr.ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4	Frequency range	806-960 MHz	1.71-2.17 GHz	2.3-2.7 GHz	
Polarization   Linear, Vertical     Input power, max.   50 Watt     Input Impedance   50 Ohm     Lightning Protection   DC Grounded     Mechanical     Dimensions (HxWxD)   Base Diameter - 205 mm, Height - 89 mm     Weight   220 gr.     Connector   N-Type, Female     Back Plane   Aluminum; protected through chemical passivation     Radome   UV Protected Polycarbonate     Mount   Ceiling Mounting     Environmental     Operating Temperature Range   -40°C to +65°C     Vibration   According to IEC 60721-3-4	GAIN, typ.	2 dBi	3-4 dBi	5 dBi	
Input power, max.50 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)Base Diameter - 205 mm, Height - 89 mmWeight220 gr.ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4	VSWR, max.	2:1	1.5 : 1	1.6 : 1	
Input Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)Base Diameter - 205 mm, Height - 89 mmWeight220 gr.ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4	Polarization	Linear, Vertical			
Lightning ProtectionDC GroundedMechanicalDimensions (HxWxD)Base Diameter - 205 mm, Height - 89 mmWeight220 gr.ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4	Input power, max.		50 Watt		
Mechanical     Dimensions (HxWxD)   Base Diameter - 205 mm, Height - 89 mm     Weight   220 gr.     Connector   N-Type, Female     Back Plane   Aluminum; protected through chemical passivation     Radome   UV Protected Polycarbonate     Mount   Ceiling Mounting     Environmental     Operating Temperature Range   -40°C to +65°C     Vibration   According to IEC 60721-3-4	Input Impedance	50 Ohm			
Dimensions (HxWxD)Base Diameter - 205 mm, Height - 89 mmWeight220 gr.ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4	Lightning Protection	DC Grounded			
Weight220 gr.ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4	Mechanical				
ConnectorN-Type, FemaleBack PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountCeiling MountingEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4	Dimensions (HxWxD)	Base Diameter - 205 mm, Height - 89 mm			
Back Plane   Aluminum; protected through chemical passivation     Radome   UV Protected Polycarbonate     Mount   Ceiling Mounting     Environmental     Operating Temperature Range   -40°C to +65°C     Vibration   According to IEC 60721-3-4	<b>U</b>	220 gr.			
Radome   UV Protected Polycarbonate     Mount   Ceiling Mounting     Environmental     Operating Temperature Range   -40°C to +65°C     Vibration   According to IEC 60721-3-4	Connector	N-Type, Female			
Mount Ceiling Mounting   Environmental   Operating Temperature Range -40°C to +65°C   Vibration According to IEC 60721-3-4	Back Plane	Aluminum; protected through chemical passivation			
Environmental       Operating Temperature Range     -40°C to +65°C       Vibration     According to IEC 60721-3-4	Radome	UV Protected Polycarbonate			
Operating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4	Mount	Ceiling Mounting			
Vibration According to IEC 60721-3-4					
	Operating Temperature Range	-40°C to +65°C			
	Vibration	According to IEC 6072	1-3-4		
Flammability UL94	Flammability	UL94			
Humidity ETS 300 019-1-4, EN 302 085 (annex A.1.1)	Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)			

Ordering Options		
MA-CM36-15	Antenna Indoor	
MA-CM36-15R	Antenna Outdoor	
MA-CM36-15T	Antenna Indoor with DC Return Option	

Patterns are available on our website

## **Patent Pending**

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 58861, P.O.Box 5 AZOR 58008, Israel