

A graphic of a globe with blue and yellow network lines connecting various points on its surface, set against a dark blue background.

Stadium Antennas

Multi Band, Multi Polarized,
Flat Panel & OMNI
Any Size, Any Frequency, Any Gain Ratio

MOBILE INDOOR
LTE MIMO OMNI WI-FI
WLAN
OUTDOOR

www.mars-antennas.com

MA-CQ26-1X

380 MHz-6 GHz 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, UNII, Bluetooth, Wi-Fi, WMTS and IMT-MC450. The antenna is aesthetic 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.

The antenna is PIM certified, thus making it suitable for all multi-carrier systems.



Specifications

Electrical

Standard	TETRA, IMT-MC450, WMTS, DVB-T LTE	SMR, AMPS, CDMA, TDMA, GSM 900	WMTS, PCS, DECT, GSM 1900, UMTS	Bluetooth, ISM, WLAN	WLL, Broad-band access Licensed Band	Home land Security, UNII, WLL, H-LAN, Wi-Fi
Frequency range	380-806 MHz	806-960 MHz	1.395-1.432 GHz 1.71-2.17 GHz	2.3-2.5 GHz	3.3-3.7 GHz	4.9-6 GHz
GAIN, typ.	1 (2*)	4	5	5	5	6
VSWR, max.	3:1 (2.5:1*)	2 : 1	2 : 1	2 : 1	1.9 : 1	1.9 : 1
Polarization	Linear, Vertical					
Input power, max.	50 Watt					
Input Impedance	50 Ohm					
PIM, 3rd order, 2X20W (option)	<-155 dBc					

Mechanical

Dimensions (HxWxD)	Base Diameter - 275 mm, Height - 187 mm
Weight	550 gr.
Connector	N-Type, Female
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Water Proofing	IP-67 (for outdoor use only)
Mount	Ceiling Mounting

Environmental

Operating Temp. Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Flammability	UL94
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

Ordering Options

MA-CQ26-1X	Antenna Indoor
MA-CQ26-1XT	Antenna Indoor with DC Return Option
MA-CQ26-1XR	Antenna Outdoor
MA-CQ26-1XP	Antenna Indoor PIM Certified
MA-CQ26-1XTP	Antenna Indoor with DC Return Option PIM Certified
MA-CQ26-1XRP	Antenna Outdoor PIM Certified

(*) Specifications for Ground Plate of 40 cm and up, or above a metal surface, with a spacing of 35-45 mm.

Patent Pending

Patterns are available on our website.

MARS Antennas & RF Systems proprietary information

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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

MA-CQ27-1X

380 MHz-6 GHz Multi Band Omni Antenna

MARS Multi Band Omni Antenna covers continuously all the bands from 380 to 960 MHz and for 4G, 3G, 2.5G and 2G cellular, as well as ISM, WLAN, UNII, Bluetooth, Wi-Fi, WMTS IMT-MC450 and LTE.

The antenna is aesthetic 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 fast deployments and "In-Building" installations. The antenna is available also for outdoor applications.

The antenna is PIM certified thus making it suitable for all multi-carrier systems.



Specifications

Electrical

Standard	TETRA, IMT- MC450, WMTS, DVB-T LTE	SMR, AMPS, CDMA, TDMA, GSM 900	WMTS, PCS, DECT, GSM 1900, UMTS, AWS-3	Bluetooth, ISM, WLAN	WLL, Broadband access Licensed Band	Homeland Security, UNII, WLL, H-LAN, Wi- Fi
Frequency range	380-806 MHz	806-960 MHz	1.395-2.3 GHz	2.3-2.7 GHz	3.3-3.8 GHz	4.9-6 GHz
GAIN, typ.	1 (2*)	4	5	6	6	6
VSWR, max.	3:1 (2.5:1*)	2 : 1	2 : 1	2.6 : 1	1.8 : 1	1.6 : 1
Polarization	Linear, Vertical					
Input power, max	50 Watt					
Input Impedance	50 Ohm					
PIM, 3 rd order, 2X20W (optional)	<-150 dBc					

Mechanical

Dimensions(HxWxD)	Base Diameter - 275 mm, Height - 187 mm
Weight	550 gr.
Connector	N-Type, Female
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Water Proofing	IP-67 (for outdoor use only)
Mount	Ceiling Mounting

Environmental

Operating Temp. Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Flammability	UL94
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

Ordering Options

MA-CQ27-1X	Antenna Indoor
MA-CQ27-1XT	Antenna Indoor with DC Return Option
MA-CQ27-1XR	Antenna Outdoor
MA-CQ27-1XP	Antenna Indoor PIM certified
MA-CQ27-1XTP	Antenna Indoor with DC Return Option PIM certified
MA-CQ27-1XRP	Antenna Outdoor PIM certified

(*) Specifications for Ground Plate of 40 cm and up, or above a metal surface, with a spacing of 35-45 mm.

Patent Pending

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MA-CQ29-1X

380 MHz-6 GHz Multi Band Omni Antenna

MARS Multi Band Omni Antenna covers continuously all the bands from 380 to 960 MHz and for 2G, 2.5G and 3G cellular, as well as ISM, WLAN, UNII, Bluetooth, Wi-Fi, WMTS IMT-MC450.

The antenna is aesthetic 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 fast deployments and "In-Building" installations.



Specifications

Electrical

Standard	TETRA, IMT- MC450, WMTS, DVB-T	SMR, AMPS, CDMA, TDMA, GSM 900	WMTS, PCS, DECT, GSM 1900, UMTS	Bluetooth, ISM, WLAN	WLL, Broad- band access Licensed Band	Homeland Security, UNII, WLL, H-LAN, Wi-Fi
Frequency range	380-806 MHz	806-960 MHz	1.7-2.5 GHz	2.5-2.7 GHz	3.3-3.7 GHz	4.9-6 GHz
GAIN, typ.	1 (2*)	4	5	5	6	6
VSWR, max.	3:1 (2.5:1*)	2 : 1	2 : 1	2.5 : 1	1.6 : 1	1.6 : 1
Polarization	Linear, Vertical					
Input power, max.	50 Watt					
PIM, 3rd order, 2X20W (option)	<-155 dBc					
Input Impedance	50 Ohm					

Mechanical

Dimensions (HxWxD)	Base Diameter - 275 mm, Height - 187 mm
Weight	550 gr.
Connector	N-Type, Female
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Mount	Ceiling Mounting

Environmental

Operating Temp. Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Flammability	UL94
Water Proofing	IP-67 (for outdoor use only)
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

Ordering Options

MA-CQ29-1X	Antenna Indoor
MA-CQ29-1XT	Antenna Indoor with DC Return Option
MA-CQ29-1XR	Antenna Outdoor
MA-CQ29-1XP	Antenna Indoor PIM Certified
MA-CQ29-1XTP	Antenna Indoor with DC Return Option PIM Certified
MA-CQ29-1XRP	Antenna Outdoor PIM Certified

(*) Specifications for Ground Plate of 40 cm and up, or above a metal surface, with a spacing of 35-45 mm.

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MA-CR26-2X

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, UNII, Bluetooth and Wi-Fi.

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.

The antenna is PIM certified, thus making it suitable for all multi-carrier systems.



Specifications

Electrical

Standard	SMR, AMPS, CDMA, TDMA, GSM 900	PCS, DECT, GSM 1900, UMTS	Bluetooth, ISM, WLAN	WLL	UNII, WLL, H-LAN, Wi-Fi
Frequency range	806-960 MHz	1.71-2.17 GHz	2.3-2.7 GHz	3.4-3.7 GHz	4.9-6 GHz
GAIN, typ.	2	3-4	5	5	5-6
VSWR, max.	2 : 1	1.6 : 1	1.6 : 1	2 : 1	1.8 : 1
Polarization	Linear, Vertical				
Input power, max	50 Watt				
Input Impedance	50 Ohm				
PIM, 3 rd order, 2X20W (optional)	<-155 dBc				

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
Flammability	UL94
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

Ordering Options

MA-CR26-2X	Antenna Indoor
MA-CR26-2XR	Antenna Outdoor
MA-CR26-2XT	Antenna Indoor with DC Return Option
MA-CR26-2XP	Antenna Indoor PIM Certified
MA-CR26-2XRP	Antenna Outdoor PIM Certified
MA-CR26-2XTP	Antenna Indoor with DC Return Option PIM Certified

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Patent Pending

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MA-WA820-DP8

698 – 960 MHz Dual-Pol Directional Antenna

MARS Dual Polarized Directional Antenna covers LTE bands 5, 6, 8, 12-14, 17-20, 26-29 & 44, GSM 900 and more.

The antenna is aesthetic and has an obtrusive profile that blends easily with any environment.

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



Specifications

Electrical

Frequency range	698 – 960 MHz
Gain, typ.	8 dBi
VSWR	typ. 1.5 : 1
	max. 2.0 : 1
Polarization	Dual Pol Vertical & Horizontal
3dB Beam-Width, Azimuth, typ.	65°
3dB Beam-Width, Elevation, typ.	65°
Port to Port Isolation, min.	-25 dB
Front to Back Ratio, min	-15 dB
PIM, typ.	-140 dBc
Input power, max.	50 Watt
Impedance	50 Ohm

Mechanical

Dimensions (HxWxD)	310 x 310 x 126 mm (12.2" x 12.2" x 4.96")
Connector	2 x N-type Female
Weight	~1.3 kg
Mounting	See Ordering Options
Radome	UV Protected Plastic
Back Plane	Aluminum protected through chemical passivation.

Environmental

Operating Temperature Range	-55°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-WA820-DP8	Antenna 2 x N-Type Female connectors Suited for MNT-22 mount
MA-WA820-DP8B	Antenna 2 x N-Type Female connectors with MNT-22 mount

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MA-WA6927-DBDP8

698 – 960 MHz & 1700 – 2700 MHz Dual Band & Dual Pol Directional Antenna

MARS Dual band & Dual Polarized Antenna covers all the bands for LTE, 3G, 2.5G and 2G cellular, as well as ISM, WLAN, Bluetooth, GSM 900 and GSM 1900.

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 Outdoor installations as well as In-Building Installations.



Specifications

Electrical

Frequency range	698 – 960 MHz	1700 – 2700 MHz
Gain, typ.	8 dBi	9 dBi
VSWR	typ. 2.0 : 1	1.7 : 1
	max. 2.5 : 1	2.5 : 1
Polarization	Vertical & Horizontal	
Port to Port Isolation, min.	-23 dB	
3dB Beam-Width, Azimuth, typ.	65°	65°
3dB Beam-Width, Elevation, typ.	65°	65°
Front to Back Ratio, min	-15 dB	
PIM, typ.	-140 dBc	
Input power, max.	50 Watt	
Impedance	50 Ohm	
Lightning Protection	DC Grounded	

Mechanical

Dimensions (HxWxD)	310 x 310 x 126 mm (12.2" x 12.2" x 4.96")
Connector	2 x N-type Female
Weight	~1.3 kg
Mounting	See Ordering Options
Radome	UV Protected Plastic
Back Plane	Aluminum protected through chemical passivation.

Environmental

Operating Temperature Range	-55°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-WA6927-DBDP8	Antenna Suited for MNT-22
MA-WA6927-DBDP8B	Antenna with MNT-22 mount

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MA-WA6927-DS7

698 – 2700 MHz Dual Slant Directional Antenna

MARS Dual Slant Antenna covers all the bands for LTE, 3G, 2.5G and 2G cellular, as well as ISM, WLAN, Bluetooth, GSM 900 and GSM 1900.

The antenna is aesthetic small and has an obtrusive profile that blends easily with any environment.

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



Specifications

Electrical

Frequency range	698 – 960 MHz	1700 – 2700 MHz
Gain	4 ± 1 dBi	7 ± 1 dBi
VSWR, max.	2.0 : 1	1.8 : 1
Polarization	Dual Slant ±45°	
Port to Port Isolation, min.	-25 dB	
3dB Beam-Width, Azimuth, typ.	70°	40°
3dB Beam-Width, Elevation, typ.	70°	40°
Front to Back Ratio, min	-15 dB	
Input power, max.	10 Watt	
Impedance	50 Ohm	
Lightning Protection	DC Grounded	

Mechanical

Dimensions (HxWxD)	310 x 310 x 67 mm (12.2" x12.2" x 2.64")
Connector	2 x Pigtails 2.7 m, SMA Female
Weight	200 gr.
Mounting	See Ordering Options
Radome	UV Protected Plastic
Back Plane	Aluminum protected through chemical passivation.

Environmental

Operating Temperature Range	-55°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-WA6927-DS7	Antenna Suited for MNT-22 mount
MA-WA6927-DS7B	Antenna with MNT-22 mount

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Tel: +972-3-5599661 • Fax: +972-3-5599677 • e-mail: mars@marsant.co.il • web: www.mars-antennas.com

MA-WA6960-DS7P

698-960 MHz & 1.7-2.7 GHz & 5.0-6.0 GHZ Multi Band Dual Slant Directional Antenna

MARS Multi Band Dual Slant Antenna covers all the bands for LTE, 3G, 2.5G and 2G cellular, as well as ISM, Wi Fi, WLAN, Bluetooth, GSM 900 and GSM 1900.

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 Outdoor installations as well as In-Building Installations.



Specifications

Electrical

Frequency range	698 – 960 MHz	1.7 – 2.7 GHz	5.0-6.0 GHz
Gain, typ.	7.5 dBi	6 - 7 dBi	6 dBi
VSWR	typ. 1.5 : 1	1.3 : 1	1.5 : 1
	max. 2.8 : 1	2.2 : 1	2.5 : 1
Polarization	Dual Slant $\pm 45^\circ$ or Dual Pole in Diamond Shape		
Port to Port Isolation, min.	-25 dB	-40 dB	-50 dB
3dB Beam-Width, Azimuth, typ.	75°	100°	40°
3dB Beam-Width, Elevation, typ.	75°	100°	40°
3dB Beam-Width, H-Plane, typ.	90°	105°	50°
3dB Beam-Width, E-Plane, typ.	60°	95°	30°
Front to Back Ratio, min	-15 dB		
PIM, typ.	-150 dBc		
Input power, max.	50 Watt		
Impedance	50 Ohm		

Mechanical

Dimensions (HxWxD)	300 x 300 x 99 mm (12.2" x 12.2" x 4.96")
Connector	2 x 4.3-10 Female
Weight	900 gr.
Mounting	See Ordering Options
Radome	UV Protected Plastic
Back Plane	Aluminum protected through chemical passivation.

Environmental

Operating Temperature Range	-55°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-WA6960-DS7P	Antenna Suited for MNT-22 Mount
MA-WA6960-DS7PB	Antenna with MNT-22 Mount

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MA-WO7402700-5

740MHz - 2700MHz Multi Band Omni Directional Base Station Antenna

MARS Dual Band Base Station Antenna provides a cost effective solution for GSM 900/1800, LTE, WLL, WLAN, ISM, WiMAX, Point-to-Point and Point-to-Multi Point applications as well as MESH networks.

UV protected radome suitable for harsh environment installations.

Antenna features stable and efficient performance with up to 6 dBi of gain.



Specifications

Electrical

Frequency range	740-960 MHz	1710-2700 MHz
GAIN, typ.	4 dBi	6 dBi
VSWR,	1.5 : 1 (typ) 2 : 1 (max)	
Polarization	Linear, Vertical	
3 dB Beam-Width, H-Plane, typ.	Omni Directional	
3 dB Beam-Width, E-Plane, typ.	35°	
Input power, max	50 Watt	
Lightning Protection	DC Grounded	
Input Impedance	50 Ohm	

Mechanical

Dimensions (HxDia.)	470 x 66 mm (18.5" x 2.5")
Weight	350 gr.
Connector	N-Type, Female
Radome	UV Protected Plastic
Mount	2.5" PM (End) Attachment

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
Ice and Snow	25mm radial (survival)

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