

MARS Antennas introduces innovative line of Compact Size 2.3-2.7 GHz Sector Antennas

MARS Antennas & RF Systems Ltd, the world class leading antenna company, introduces a new line of 2.3-2.7 GHz sector antennas with beam widths of 60,90 and 120 degrees and gain up to 17 dBi in a very compact (15-31 inch) and robust housing. The lightweight and easy-to-install antennas are a perfect solution for all WLL, WLAN, ISM and Wi-Fi applications. Beam width in the E-Plane guarantees simple and handy installation. Compact size allows for quick installation with specially designed adjustable tilt mount.

Compact 2.3-2.7 GHz Sector Antennas

	<u>15" (38cm)</u>	<u>31"(80 cm)</u>
60°	14 dBi (P/N: MA-WC24-14)	17 dBi (P/N: MA-WC24-17)
90°	13 dBi (P/N:MA-WD24-13)	15.5 dBi (P/N:MA-WD24-15)
120°	12 dBi (P/N: MA-WE24-11)	15 dBi (P/N: MA-WE24-14)

About MARS Antennas & RF Systems Ltd

MARS Antennas & RF Systems Ltd is a world class leading antenna and RF solutions Research & Development and manufacturing company based in Israel, with a demonstrated capacity to design and provide cost effective products with exceptional performance characteristics. The company established in 1987 and is located in Tel-Aviv area.

MARS offers a wide range of Broadband Access Antennas both Subscriber and Base Station Antennas for Wi-MAX, Wi-Fi and WLAN applications covering 700 MHz, 915 MHz, 2.5, 3.5, 4.9 and 5.8 GHz bands. MARS also has a strong line of In-Building antennas that allows for cost effective solution for Cellular and Wi-Fi applications. In addition MARS offers a wide range of antennas for ISM & Special Applications, Embedded Antennas, Wi-Fi Repeaters, In-Building Cellular Repeaters – High Selective and FCC approved.

MARS is ISO 9001 and RoHS certified Research & Development and manufacturing company.

2.3-2.7 GHz Base Station Antenna, 60°

MA-WC24-14

MARS 60° Base Station Antenna with 14 dBi of gain is light-weight yet has a robust and durable construction.

Antenna Features:

- quick and easy installation
- small, aesthetic and unobtrusive radome
- easily adapted to any RF connector
- easy mounting allows to obtain required downtilt degree

Applications:

- Point-to-Multi-Point Systems
- for WLL applications
- MMDS
- ISM applications



Specifications:

<i>Electrical</i>	
Frequency range	2.3 - 2.7 GHz
GAIN, min.	14 dBi
VSWR, max.	1.7 : 1
Polarization	Linear, Vertical
3 dB Beam-Width, H-Plane, typ.	90°
3 dB Beam-Width, E-Plane, typ.	14°
Side Lobes, min.	-12 dB
Cross Polarization, min.	-22 dB
Front to Back Ratio, min.	-22 dB
Input power, max	50 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<i>Mechanical</i>	
Dimensions (HxWxD)	380 x 150 x 80 mm (15"x 5.9"x 3.1"-including side wings)
Weight	0.5 kg
Connector	N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected, Plastic
Mount	MNT-1
<i>Environmental</i>	
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-65
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)
Service Life	>10 years

Specifications subject to change without notice

2.3-2.7 GHz Base Station Antenna, 90°

MA-WD24-13

MARS 90° Base Station Antenna has a lightweight and durable construction.

Additional Features:

- Compact Size
- Quick and easy installation
- Adjustable Tilt (with optional mount MNT-1)

Applications:

- Point -to -Multi - Point Applications
- WLL Applications
- MMDS
- ISM Applications



Specifications:

<i>Electrical</i>	
Frequency range	2.3 - 2.7 GHz
GAIN, min.	13 dBi
VSWR, max.	1.7 : 1
Polarization	Linear, Vertical
3 dB Beam-Width, H-Plane, typ.	90°
3 dB Beam-Width, E-Plane, typ.	15°
Side Lobes, min.	-12 dB
Cross Polarization, min.	-22 dB
Front to Back Ratio, min.	-30 dB
Input power, max	50 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<i>Mechanical</i>	
Dimensions (HxWxD)	380 x 75 x 80 mm (15"x3"x3.1")
Weight	0.5 kg
Connector	N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected, Plastic
Mount	MNT-2
<i>Environmental</i>	
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-65
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)
Service Life	>10 years

Specifications subject to change without notice

2.3-2.7 GHz Base Station Antenna, 120°

MA-WE24-11

MARS 120° Base Station Antenna has a lightweight and durable construction.

Additional Features:

- Compact Size
- Quick and easy installation
- Adjustable Tilt (with optional mount MNT-1)

Applications:

- Point -to -Multi - Point Applications
- WLL Applications
- MMDS
- ISM Applications



Specifications:

<i>Electrical</i>	
Frequency range	2.3 - 2.7 GHz
GAIN, typ.	11.5 dBi
VSWR, max.	1.7 : 1
Polarization	Linear, Vertical
3 dB Beam-Width, H-Plane, typ.	120°
3 dB Beam-Width, E-Plane, typ.	15°
Side Lobes, min.	-12 dB
Cross Polarization, min.	-22 dB
Front to Back Ratio, min.	-17 dB
Input power, max	50 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<i>Mechanical</i>	
Dimensions (HxWxD)	380 x 75 x 80 mm (15"x3"x3.1")
Weight	0.5 kg
Connector	N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected, Plastic
Mount	MNT-2
<i>Environmental</i>	
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-65
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)
Service Life	>10 years

Specifications subject to change without notice

2.3-2.7 GHz Base Station Antenna, 60°

MA-WC24-17

MARS 60° Base Station Antenna with 17 dBi of gain is light-weight yet has a robust and durable construction.

Antenna Features:

- quick and easy installation
- small, aesthetic and unobtrusive radome
- easily adapted to any RF connector
- easy mounting allows to obtain required downtilt degree

Applicable Applications:

- Point-to-Multi-Point Systems
- for WLL applications
- MMDS
- ISM applications



Specifications:

<i>Electrical</i>	
Frequency range	2.3 – 2.7 GHz
GAIN, typ.	17 dBi
VSWR, max.	1.7 : 1
Polarization	Linear, Vertical
3 dB Beam-Width, H-Plane, typ.	60°
3 dB Beam-Width, E-Plane, typ.	8°
Side Lobes, min.	-13 dB
Cross Polarization, min.	-20 dB
Front to Back Ratio, min.	-24 dB
Input power, max	50 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<i>Mechanical</i>	
Dimensions (HxWxD)	800 x 120 x 65 mm (31.5"x4.7"x2.6")
Weight	1.2 kg
Connector	N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected, Plastic
Mount	MNT-5
<i>Environmental</i>	
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-65
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)
Service Life	>10 years
<i>Standard Compliance</i>	
ETSI EN 301 525 v1.1.1	

Specifications subject to change without notice

2.3-2.7 GHz Base Station Antenna, 90°

MA-WD24-15

MARS 90° Base Station Antenna with 15.5 dBi of gain is light-weight yet has a robust and durable construction.

Antenna Features:

- quick and easy installation
- small, aesthetic and unobtrusive radome
- easily adapted to any RF connector
- easy mounting allows to obtain required downtilt degree

Applicable Applications:

- Point-to-Multi-Point Systems
- for WLL applications
- MMDS
- ISM applications



Specifications:

<i>Electrical</i>	
Frequency range	2.3 – 2.7 GHz
GAIN, typ.	15.5 dBi
VSWR, max.	1.7 : 1
Polarization	Linear, Vertical
3 dB Beam-Width, H-Plane, typ.	90°
3 dB Beam-Width, E-Plane, typ.	8°
Side Lobes, min.	-13 dB
Cross Polarization, min.	-20 dB
Front to Back Ratio, min.	-24 dB
Input power, max	50 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<i>Mechanical</i>	
Dimensions (HxWxD)	800 x 120 x 65 mm (31.5"x4.7"x2.6")
Weight	1.2 kg
Connector	N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected, Plastic
Mount	MNT-5
<i>Environmental</i>	
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-65
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)
Service Life	>10 years
<i>Standard Compliance</i>	
ETSI EN 301 525 v1.1.1	

Specifications subject to change without notice

2.3-2.7 GHz Base Station Antenna, 120°

MA-WE24-14

MARS 120° Base Station Antenna with 14.5 dBi of gain is light-weight yet has a robust and durable construction.

Antenna Features:

- quick and easy installation
- small, aesthetic and unobtrusive radome
- easily adapted to any RF connector
- easy mounting allows to obtain required downtilt degree

Applicable Applications:

- Point-to-Multi-Point Systems
- for WLL applications
- MMDS
- ISM applications



Specifications:

<i>Electrical</i>	
Frequency range	2.3 – 2.7 GHz
GAIN, typ.	14.5 dBi
VSWR, max.	1.7 : 1
Polarization	Linear, Vertical
3 dB Beam-Width, H-Plane, typ.	120°
3 dB Beam-Width, E-Plane, typ.	8°
Side Lobes, min.	-13 dB
Cross Polarization, min.	-20 dB
Front to Back Ratio, min.	-24 dB
Input power, max	50 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<i>Mechanical</i>	
Dimensions (HxWxD)	800 x 120 x 65 mm (31.5"x4.7"x2.6")
Weight	1.2 kg
Connector	N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected, Plastic
Mount	MNT-5
<i>Environmental</i>	
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-65
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)
Service Life	>10 years
<i>Standard Compliance</i>	
ETSI EN 301 525 v1.1.1	

Specifications subject to change without notice