

MARS Antennas introduces innovative line of 3.3-3.8

Sector Antennas for WiMAX Applications

MARS Antennas & RF Systems Ltd, the world class leading antenna company, introduces a new line of 3.3-3.8 GHz sector antennas with beam widths of 60,90 and 120 degrees and gain up to 17 dBi in a very compact (22" inch) and robust housing. The antennas are specially designed for WiMAX applications and also provide a perfect solution for Point-to-Multi Point and WLL applications. The sector antennas are lightweight and easy-to-install. Beam width in the E-Plane guarantees simple and handy installation. Compact size allows for quick installation with specially designed adjustable tilt mount.

WiMAX 3.3-3.8 GHz Sector Antennas

22" (55cm)

60° **16 dBi** (P/N: MA-WC36-17)

90° **16 dBi** (P/N:MA-WD36-16)

120° **15 dBi** (P/N: MA-WE36-15)

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.



3.3-3.8 GHz Sector Antenna for WiMAX Applications, 60° MA-WC36-17

MARS 60° Base Station Antenna is light-weight yet has a robust and durable construction.

Additional Features:

- specially designed for WiMAX applications
- quick and easy installation
- easy mounting allows to obtain required downtilt
- suitable for harsh environment installations
- DC grounded

Applications:

- WiMAX – licensed band applications
- Point-to-Multi Point Applications
- WLL applications



Specifications:

<i>Electrical</i>	
Frequency range	3.3-3.8 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.	ETSI EN 302 085 V1.2.3-CS1
Cross Polarization, min.	ETSI EN 302 085 V1.2.3-CS1
Front to Back Ratio, min.	ETSI EN 302 085 V1.2.3-CS1
Input power, max	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<i>Mechanical</i>	
Dimensions (HxWxD)	554 x 76 x 53 mm (21.8" x3" x 2.1")
Weight	1 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
<i>Standard Compliance</i>	
ETSI EN 302 085 V1.2.3 – CS1	

Specifications subject to change without notice

**3.3-3.8 GHz Sector Antenna for WiMAX Applications, 90°
MA-WD36-16**

MARS 90° Base Station Antenna is light-weight yet has a robust and durable construction.

Additional Features:

- specially designed for WiMAX applications
- quick and easy installation
- easy mounting allows to obtain required downtilt
- suitable for harsh environment installations
- DC grounded

Applications:

- WiMAX – licensed band applications
- Point-to-Multi Point Applications
- WLL applications



Specifications:

<i>Electrical</i>	
Frequency range	3.3-3.8 GHz
GAIN, typ.	16 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.	ETSI EN 302 085 V1.2.3-CS1
Cross Polarization, min.	ETSI EN 302 085 V1.2.3-CS1
Front to Back Ratio, min.	ETSI EN 302 085 V1.2.3-CS1
Input power, max	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<i>Mechanical</i>	
Dimensions (HxWxD)	554 x 76 x 53 mm (21.8" x3" x 2.1")
Weight	1 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
<i>Standard Compliance</i>	
ETSI EN 302 085 V1.2.3 – CS1	

Specifications subject to change without notice

3.3-3.8 GHz Sector Antenna for WiMAX Applications,120° MA-WE36-15

MARS 120° Base Station Antenna is light-weight yet has a robust and durable construction.

Additional Features:

- specially designed for WiMAX applications
- quick and easy installation
- easy mounting allows to obtain required downtilt
- suitable for harsh environment installations
- DC grounded

Applications:

- WiMAX – licensed band applications
- Point-to-Multi Point Applications
- WLL applications



Specifications:

<i>Electrical</i>	
Frequency range	3.3-3.8 GHz
GAIN, typ.	15 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.	ETSI EN 302 085 V1.2.3-CS1
Cross Polarization, min.	ETSI EN 302 085 V1.2.3-CS1
Front to Back Ratio, min.	ETSI EN 302 085 V1.2.3-CS1
Input power, max	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<i>Mechanical</i>	
Dimensions (HxWxD)	554 x 76 x 53 mm (21.8" x3" x 2.1")
Weight	1 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
<i>Standard Compliance</i>	
ETSI EN 302 085 V1.2.3 – CS1	

Specifications subject to change without notice