



► Broadband ► Cellular ► In-Building ► Mobile



## Latest and New Antenna Designs



**Leading Flat Panel Antennas  
& RF Systems Manufacturer**



## About MARS

MARS Antennas & RF Systems Ltd., established in 1994, is a world class leading manufacturer of antennas, RF solutions, and Research & Development based in Israel.

Mars has demonstrated capability to design and provide products with exceptional performance characteristics.

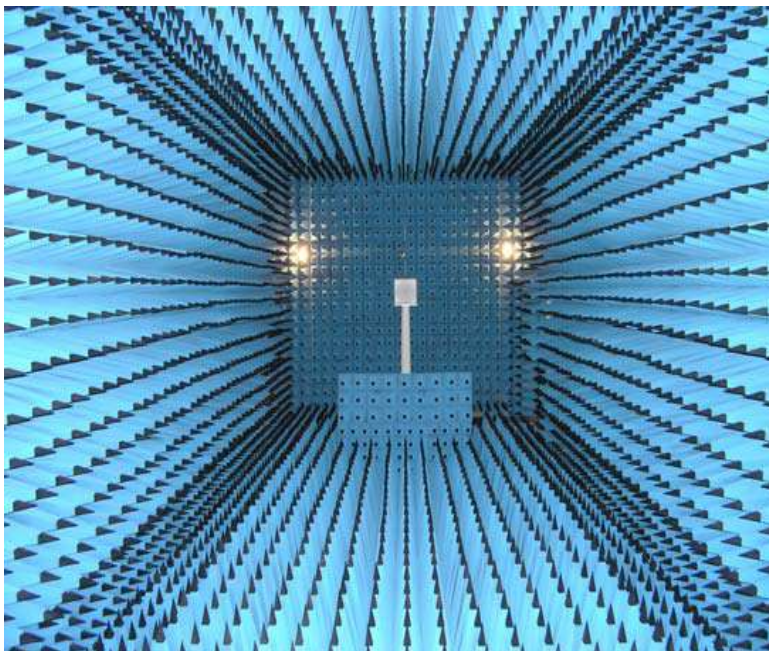
The Company has unsurpassed expertise in developing and manufacturing standard, as well as customized wide band high performance antennas.



**MARS premises**

MARS's expertise in developing and manufacturing of antennas based on printed circuit antennas called flat or Flat Panel Arrays allows them to meet the following certifications: ISO 9001, ISO 14001 and RoHS.

MARS owns an in-house internal anechoic chamber, which allows high quality product development and quality control.



**MARS In-House Antenna Range 13.5x5 m**

MARS offers its customers customized Antennas & RF Systems Solutions which is an integral part of customer's application development process. Some of MARS outstanding designs were the first in the market and are still uncontested.

MARS Key Customers: Proxim, Cisco, Airspan, Infinet Wireles, Ruckus, Aruba, Alcatel Lucent, Cambium, Juniper, Exalt, etc.

MARS is approved supplier to OEMs: Alvarion, Motorola, Motorola-Canopy, Ericsson, Proxim, Airaya, Mobile Access, Alcatel Lucent etc.

MARS Antennas installations provide reliable coverage in major airports, government facilities, and the hospital industry, etc.

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## Client Commitment

MARS Antennas & RF Systems is fully committed to addressing the needs of our diverse international client base. To meet this objective, we employ a methodology that integrates each client throughout the development lifecycle.

By encouraging client interaction and feedback at all stages of the development process, MARS Antennas & RF Systems ensures that each product is equipped with the most advanced technology, while meeting specific end-user requirements.

Our client commitment and proven track record have helped MARS Antennas & RF Systems earn a reputation for transforming unique, complex requirements into fully operational products – on time, on budget and on spec.

## Quality Assurance at MARS

MARS is ISO9001 and ISO14001 certified.

QA department monitors the development and manufacturing processes.

During the development process the QA audits the process, documentation and milestones. QA is expressed primarily in the prototype production authentication, testing, planning surveys and documentation control with specific attention to the documents production portfolio.

QA department production process supervision includes:

- Raw material and purchased accessories acceptance testing
- Testing process
- Final testing

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## Latest and New Designs

Stadium Antennas			
Specially designed for stadiums and arenas			
	<b>MA-WA22-DP14</b> 1700-2700 MHz 33°/33° 430 X 240 X 48 mm  See page 36	<b><u>1.7-2.2 GHz</u></b> 13dBi	<b><u>2.2-2.7 GHz</u></b> 14 dBi
		Linear, Vertical & Horizontal	
	<b>MA-WA82220-DBDP14</b> 698-960 MHz & 1700-2700 MHz 35°/35°  <b>PIM Certified</b>  800 X 600 X 110 mm  See page 35	<b><u>698-960 MHz</u></b> V-pol: 12dBi H-pol: 13dBi	<b><u>1.7-2.7 GHz</u></b> V-pol: 13dBi H-pol: 13dBi
		Vertical & Horizontal	



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## 4 and 5 Polarizations MIMO Antenna

### 802.11ac standard applications approved

 <p><b>MA-WA2455-QPMIMO</b> Dual Band Quad Polarizations MIMO Antenna (305mm X 305mm X 15mm) See page 37</p>	<p><b><u>5.15-5.875 GHz</u></b> 16dBi Vertical &amp; Horizontal Pol</p>	<p><b><u>2.3-2.7 GHz</u></b> 12 dBi Dual Slant <math>\pm 45^\circ</math></p>
 <p><b>MA-WA55-4QP13</b> Quad Polarizations MIMO Antenna (200mm X 200mm X 33mm) See page 38</p>	<p><b><u>4.9-6.1 GHz</u></b> 4 x 13 dBi Vertical, Horizontal &amp; Dual Slant <math>\pm 45^\circ</math></p>	
 <p><b>MA-WA57-QP4MIMO19</b> Dual Band Quad Polarizations MIMO Antenna (370mm X 370mm X 40mm) See page 39</p>	<p><b><u>4.9-5.15 GHz</u></b> 4 x 18 dBi Vertical, Horizontal &amp; Dual Slant <math>\pm 45^\circ</math></p>	<p><b><u>5.15-6.425 GHz</u></b> 4 x 19 dBi Vertical, Horizontal &amp; Dual Slant <math>\pm 45^\circ</math></p>
 <p><b>MA-WA56-MIMO5-14</b> 5 MIMO Antenna (305mm X 305mm X 15mm) See page 40</p>	<p><b><u>4.9-6.1 GHz</u></b> 5 x 13.5 dBi Linear, Vertical, Dual Slant <math>\pm 45^\circ</math></p>	
 <p><b>MA-WA55-QP4MIMO</b> Quad Polarizations MIMO Antenna (305mm X 305mm X 15mm) See page 41</p>	<p><b><u>5.1-5.9 GHz</u></b> 4 x 16 dBi Vertical, Horizontal &amp; Dual Slant <math>\pm 45^\circ</math></p>	

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## PIM Certified Antenna

### Stadium antenna



#### MA-WA82220-DBDP14

698-960 MHz & 1700-2700 MHz

35°/35°

800 X 600 X 110 mm

See page 35

### Multi Band In-Building / Outdoor antenna



#### MA-CQ26-1X

380 MHz – 6 GHz

See page 184

#### MA-CQ27-1X

380 MHz – 6 GHz

See page 185

#### MA-WOLTE-DP1

698 MHz – 6.5 GHz

See page 191



#### MA- WOLTE-3X

698 MHz – 6.5 GHz

See page 189

#### MA-CR26-2X

806 MHz – 6 GHz

See page 188

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



#### MA- WO7402700-5

Multi Band Omni Directional Base Station Antenna featuring stable and efficient performance of 4 or 6dBi of gain.

(470mm X Dia.66mm)

Covering  
740-2700 MHz

See page 145

#### Gain

**740-960 MHz**

4 dBi

**1710-2700 MHz**

6 dBi

#### Polarization

Linear, Vertical

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## Dual Polarization Omni Directional Antenna



**MA-WO25-DP10**  
Dual Polarized  
OMNI Directional Antenna  
640mm X 110mm (dia.)

See page 42

**2.3-2.7 GHz**  
Vertical Polarization @ 9 dBi  
Horizontal Polarization @10 dBi

Vertical & Horizontal



**MA-WO56-DP10**  
Dual Polarized  
OMNI Directional Antenna  
365mm X 66mm (dia.)

See page 43

**4.9-5.9 GHz**  
4.9-5.1 GHz  
Vertical @ 8dBi & Horizontal @ 10dBi  
5.1-5.9 GHz @ 10dBi

Vertical & Horizontal

## Cellular & Wi-Fi Dual Band & Dual Polarization Directional Antenna



**MA-WA82220-DBDP8**  
**GSM, LTE, UMTS, Wi-Fi**  
Dual Band & Dual Pol  
Directional Antenna

310mm x 310mm x 126mm

See page 44

**698 – 960 MHz & 1.7 – 2.7 GHz**  
698-960 MHz @ 8 dBi  
1.7-2.1 GHz @ 7dBi  
2.1-2.7 GHz @ 10 dBi  
Vertical & Horizontal

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## Horizontal Polarized OMNI Directional Antennas



**MA-WO25-9H**  
Horizontal Polarized  
OMNI Directional  
Antenna  
640mm X 76mm (dia.)

See page 163

**2.3-2.7 GHz**  
10dBi  
Linear, Horizontal



**MA-WO56-10H**  
Horizontal Polarized  
OMNI Directional  
Antenna  
315mm X 40mm (dia.)

See page 177

**5.1-5.9 GHz**  
10dBi  
Linear Horizontal

## Dual Polarized MIMO CPE Antennas



**MA-WC25-DS16**  
Dual Slant Base Station  
Antenna - **65°**  
(800mm X 225mm X 67mm)

See page 75

**2.3-2.7 GHz**  
2 x 16 dBi  
Dual Slant  $\pm 45^\circ$



**MA-WD25-DS15**  
Dual Slant Base Station  
Antenna - **90°**  
(800mm X 225mm X 67mm)

See page 76

**2.3-2.7 GHz**  
2 x 15 dBi  
Dual Slant  $\pm 45^\circ$

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## 450-470 MHz OMNI Antenna



**MA-WO46-2**  
OMNI Antenna  
360mm X 26mm (Dia)  
Covering  
450-470 MHz  
See page 227

### Gain

2 dBi

### Polarization

Linear Vertical

## 4.4-6.1 GHz Dual Polarization/Dual Slant Subscriber Antenna



**MA-WA52-DP24**  
Dual Polarization/Dual  
Slant Subscriber Antenna  
(370mm X 370mm X 40mm)  
Covering  
4.4-6.1 GHz  
See page 59

### Gain

24 ± 1 dBi

### Polarization

Linear, Vertical & Horizontal

## 6-7 GHz Dual Polarization Subscriber Antenna



**MA-WA65-DP19**  
Dual Polarization  
Subscriber Antenna  
(200mm X 200mm X 33mm)  
Covering  
7-8 GHz  
See page 69

### Gain

19 ± 1 dBi

### Polarization

Linear, Vertical & Horizontal

## 7-8 GHz Dual Polarization Subscriber Antenna



**MA-WA78-DP19N**  
Dual Polarization  
Subscriber Antenna  
(155mm X 155mm X 28mm)  
Covering  
7-8 GHz  
See page 70

### Gain

19 ± 1 dBi

### Polarization

Linear, Vertical & Horizontal

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## 7.75-7.9 GHz Dual Polarization Base Station Antenna 90°



**MA-WD78-DP12**  
Dual Polarization Base  
Station Antenna 90°  
(155mm X 155mm X 28mm)  
Covering  
7.75-7.9 GHz

See page 65

### Gain

12 dBi

### Polarization

Linear, Vertical & Horizontal

## 10.15-11GHz Dual Polarization Subscriber Antenna



**MA-WA10-DP23**  
Dual Polarization  
Subscriber Antenna  
(202mm X 202mm X 33mm)  
Covering  
10.15-11 GHz

See page 71

### Gain

23 dBi

### Polarization

Linear, Vertical & Horizontal

## 10.15-10.7 GHz Dual Polarized Base Station Antenna, 90°



**MA-WD10-DP14**  
90° Dual Polarized Base  
Station Antenna  
(200mm X 200mm X 33mm)  
Covering  
10.15-10.7 GHz

See page 94

### Gain

14 dBi

### Polarization

Dual Vertical & Horizontal


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## 698 MHz – 6.6 GHz Multi Band Tri-Ports Dual Polarized Omni Antenna

	<b>MA-WOLTE-DP2</b> Tri-Ports Multi Band Omni Antenna  Covering 698-6600 MHz  See page 204	<b>Port 1</b> (Linear, Horizontal) 1.7-2.7 GHz 5 dBi	<b>Port 2</b> (Linear, Horizontal) 4.4-6.6 GHz 6 dBi
		<b>Port 3</b> (Linear, Vertical) 4 dBi @ 698-960 MHz 3-4 dBi @ 1.7-2.3 GHz 5.5 dBi @ 2.3-2.7 GHz 4 dBi @ 3.3-3.8 GHz 6 dBi @ 4.5- 6.6 GHz	


## Indoor/Outdoor LTE Multi Band Tri-Ports Omni Antenna

	<b>MA-WOLTE-3M1</b> Tri-Ports Multi Band Omni Antenna  Covering 698-6500 MHz  See page 190	<b>Gain</b>	
		<b>Port 1 &amp; 2</b> 2 dBi @ 698-960 MHz 3-4 dBi @ 1710-2170 MHz 5 dBi @ 2.3-2.7 GHz 4 dBi @ 3.3-3.8 GHz 6 dBi @ 4.9- 6.5 GHz	<b>Port 3</b> 3 dBi @ 1710-2170 MHz 3 dBi @ 2.3-2.7 GHz 4 dBi @ 3.3-3.8 GHz 6 dBi @ 4.9-6.5 GHz
		<b>Polarization</b> Linear, Vertical	

## Multi-Band Dual Polarized Indoor/Outdoor Omni Antenna

	<b>MA-WOLTE-DP1</b>  Multi-Band Dual Polarized Indoor/Outdoor Omni Antenna  covering 698MHz-6.5GHz  See page 191	<b>Polarization - Horizontal</b>				
		2.3-2.7 GHz 5 dBi		4.9-5.875 GHz 5 dBi		
		<b>Polarization - Vertical</b>				
		698-960 MHz 4 dBi	1.71-2.17 GHz 5 dBi	2.3-2.7 GHz 5.5 dBi	3.3-3.8 GHz 7 dBi	4.9-6.5 GHz 7.5 dBi

## Multi-Band Indoor/Outdoor Omni Antenna

	<b>MA-CQ29-1X</b> Multi-Band Indoor/Outdoor Omni Antenna  covering 380MHz-6GHz  See page 186	<b>Gain</b>					
		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
		1 (2*) dBi	4 dBi	5 dBi	5 dBi	6 dBi	6 dBi
		(*) Specifications for Ground Plate of 40 cm and up, or above a metal surface, with a spacing of 35-45 mm.					
		<b>Polarization</b> Linear, Vertical					


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## 1.7-2.7 GHz Dual Polarization Antenna High Gain/Size Ratio

	<p style="text-align: center;"><b>MA-WA22-DP8</b> Dual Polarization/Slant Subscriber (112mm X 112mm) covering 1.7-2.7 GHz See page 45</p>		<b>Gain</b>	
			8 dBi	
			<b>Polarization</b>	
			<b>Dual Pole</b> Linear Vertical & Horizontal	<b>Dual Slant (opt.)</b> ± 45° (diamond shape)


## High Gain/Size Ratio Dual Pole/Slant 2.5 GHz Subscriber Antenna

	<p style="text-align: center;"><b>MA-WA25-DP9</b> Dual Polarization/Slant Subscriber (112mm X 112mm) covering 2.3-2.7 GHz See page 48</p>		<b>Gain</b>	
			8 ± 1 dBi	
			<b>Polarization</b>	
			<b>Dual Pole</b> Linear Vertical & Horizontal	<b>Dual Slant (opt.)</b> ± 45° (diamond shape)

## High Gain/Size Ratio Dual Pole/Slant 3.6 GHz Subscriber Antenna

	<p style="text-align: center;"><b>MA-WA36-DP11</b> Dual Polarization/Slant Subscriber (112mm X 112mm) covering 3.3-4.01 GHz See page 53</p>		<b>Gain</b>	
			11 dBi	
			<b>Polarization</b>	
			<b>Dual Pole</b> Linear Vertical & Horizontal	<b>Dual Slant (opt.)</b> ± 45° (diamond shape)

## High Gain/Size Ratio Dual Pole/Slant 5 GHz Subscriber Antenna

	<p style="text-align: center;"><b>MA-WA56-DP13</b> Dual Polarization/Slant Subscriber (112mm X 112mm) covering 4.9-6.1 GHz See page 60</p>		<b>Gain</b>	
			H-pol 14.5 dBi	V-pol 13.5 dBi
			<b>Polarization</b>	
			<b>Dual Pole</b> Linear Vertical & Horizontal	<b>Dual Slant (opt.)</b> ± 45° (diamond shape)

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## High Gain Vertical or Horizontal Polarized Antenna

	<b>MA-WA48-23</b> High Gain ( <b>23 dBi</b> ) Vertical or Horizontal Polarized Antenna covering 4.4-5.1 GHz See page 135	<b>Gain</b>
		23 dBi
		<b>Polarization</b>
		Linear, Vertical & Horizontal

## Active GPS Antenna

	<b>MA-AGP15-5</b> Active GPS Antenna features stable and efficient performance covering 1575.42±2 MHz See page 230	<b>LNA Gain, typ.</b>
		25 dB
		<b>Gain Characteristics of Antenna Element</b>
		+5.0 dBic minimum at zenith -10 dBic minimum at 0° elevation

## Passive GPS Antenna

	<b>MA-PGP15-5</b> Passive GPS Antenna features stable and efficient performance covering 1575.42±2 MHz See page 231	<b>Gain, min.</b>
		5 dBic
		<b>Gain Characteristics of Antenna Element</b>
		-10 dBic minimum at 0° elevation

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## Parabolic Antennas

### Dual Band Dual Polarization Parabolic Reflector Antenna, 1.2m



#### MA-WP2556-DP12

Dual Band, Dual Polarization  
Parabolic Reflector  
Antenna, 1.2m

Covering  
2.4-2.7 GHz &  
5.0-6.0 GHz

See page 234

#### Gain

**2.4-2.7 GHz**  
25 ± 1 dBi

**5-6 GHz**  
32.5 ± 1 dBi

#### Polarization

Dual, Vertical & Horizontal

### Dual Polarization Parabolic Dish Antenna, 1.2m



#### MA-WP56-DP34

High Gain, Dual Polarization,  
Parabolic Dish antenna, 1.2m

Covering  
4.9-6.1 GHz

See page 235

#### Gain

**5.15-6.10 GHz**  
34 dBi

**4.90-5.15 GHz**  
32 dBi

#### Polarization

Dual polarized

### Dual Polarized Parabolic Dish Antenna, 1.2m



#### MA-WP61-DP35

High Gain,  
Dual Polarization,  
Parabolic Dish antenna, 1.2m

Covering  
5.7-6.5 GHz

See page 237

#### Gain

**5.7-6.5 GHz**  
35 dBi

#### Polarization

Dual polarized

### Dual Polarization Parabolic Dish Antenna, 0.9m



#### MA-WP56-DP32

High Gain, Dual Polarization,  
Parabolic Dish antenna, 0.9m

Covering  
5.1-5.9 GHz

See page 236

#### Gain

**5.1-5.9 GHz**  
32 dBi

#### Polarization

Dual polarized



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## Wide Band Blade Antenna for Mobile Applications

<b>MA-VM1765-5</b> (Bottom Mount)    Ruggedized and Aerodynamic Wide Band Blade antenna covering 1.7-6.5GHz  See page 210	<b>MA-VM1765-5S</b> (Magnetic Mount)    See page 211	<b>Polarization</b>			
		Linear, Vertical			
		<b>Polarization</b>			
		1.7-2.3 GHz	2.3-3.0 GHz	3.0-4.0 GHz	4.0-6.5 GHz
		3 dBi	4 dBi	5 dBi	6 dBi

## High Gain Dual Pole/Slant 4.9-6.1 GHz Subscriber Antenna

  <b>MA-WA56-DP23</b> Dual Polarization/Slant Subscriber Antenna (305mm X 305mm X 15mm) covering 4.9-6.1 GHz  See page 63	<b>Gain</b>	
	23 ± 1 dBi	
	<b>Polarization</b>	
	<b><u>Dual Pole</u></b> Linear Vertical & Horizontal	<b><u>Dual Slant (opt.)</u></b> ± 45° (diamond shape)

## Mid / High Gain 120° Dual Polarization Base Station Antenna

  <b>MA-WE56-DP15</b> 120° Dual Polarization Base Station Antenna (370mm X 370mm X 40mm) covering 5.15-5.875 GHz  See page 89	<b>Gain</b>	
	14.5 dBi	
	<b>Polarization</b>	
	Dual, Vertical & Horizontal	

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## 600 X 600 mm (23.5" x 23.5") Antennas


### High Gain Dual Pole/Slant Subscriber for 2.3-2.7 GHz

	<b>MA-WA25-DP23</b> <b>22-24 dBi gain</b> Dual Polarization/Slant Subscriber Antenna  covering 2.3-2.7 GHz  See page 52	<b>Gain</b>	
		23 ± 1 dBi	
		<b>Polarization</b>	
		Linear, Vertical & Horizontal	

### High Gain Dual Pole/Slant Subscriber for 3.5GHz

	<b>MA-WA36-DP25</b> High Gain ( <b>24-26 dBi</b> ) Dual Pole/Slant Antenna  covering 3.3-3.8 GHz  See page 57	<b>Gain</b>	
		25 ± 1 dBi	
		<b>Polarization</b>	
		Linear, Vertical & Horizontal	

### High Gain Dual Pole/Slant Full 5GHz spectrum

	<b>MA-WA56-DP28N</b> High Gain ( <b>26-29.5 dBi</b> ) Wideband Dual Pole/Slant Antenna  Covering <b>Full 5GHz spectrum</b> 4.7-6.425 GHz  See page 65	<b>Gain (dBi)</b>					
		<b>GHz</b>	4.7-4.9	4.9-5.15	5.15-5.875	5.875-6.1	6.1-6.425
		<b>V-Pol</b>	28±1	28.5±0.5	29±0.5	28.5±0.5	27.5±1
		<b>H-Pol</b>	27±1	28±0.5	28.5±0.5	28±1	27±1
		<b>Polarization</b>					
		<b>Dual Pole</b> Vertical & Horizontal			<b>Dual Slant (opt.)</b> ± 45°		


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## High Gain Dual Pole/Slant Subscriber for 6GHz

	<b>MA-WA62-DP30</b>	
	High Gain ( <b>28-30 dBi</b> ) Dual Pole/Slant Antenna	
	covering 5.3-6.5 GHz	
	See page 66	
	<b>Gain</b>	
	29 ± 1 dBi	
	<b>Polarization</b>	
	Dual polarization Vertical & Horizontal	

## High Gain Subscriber Full 5 & 6 GHz spectrum

	<b>MA-WA62-30</b>		
	High Gain ( <b>30 dBi</b> ) Dual Pole/Slant Antenna		
	covering <b>Full 5 &amp; 6 GHz spectrum</b> 4.9-6.5 GHz		
	See page 142		
	<b>Gain</b>		
	4.9-5.15 GHz 28.5 dBi	5.15-5.875 GHz 29 dBi	5.875-6.5GHz 30 dBi
<b>Polarization</b>			
Linear, Vertical			

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