

Latest and New Designs

4 and 5 Polarizations MIMO Antenna 802.11ac standard applications approved			
	MA-WA2455-QPMIMO Dual Band Quad Polarizations MIMO Antenna (305mm X 305mm X 15mm) See page 31	<u>5.15-5.875 GHz</u> 16dBi Vertical & Horizontal Pol	<u>2.3-2.7 GHz</u> 12 dBi Dual Slant $\pm 45^\circ$
		<u>4.9-6.1 GHz</u> 4 x 13 dBi Vertical, Horizontal & Dual Slant $\pm 45^\circ$	
	MA-WA57-QP4MIMO19 Dual Band Quad Polarizations MIMO Antenna (370mm X 370mm X 40mm) See page 33	<u>4.9-5.15 GHz</u> 4 x 18 dBi Vertical, Horizontal & Dual Slant $\pm 45^\circ$	<u>5.15-6.425 GHz</u> 4 x 19 dBi Vertical, Horizontal & Dual Slant $\pm 45^\circ$
		<u>4.9-6.1 GHz</u> 5 x 13.5 dBi Linear, Vertical	
	MA-WA56-MIMO5-14 5 MIMO Antenna (305mm X 305mm X 15mm) See page 34	<u>4.9-6.1 GHz</u> 5 x 13.5 dBi Linear, Vertical	
	MA-WA55-QP4MIMO Quad Polarizations MIMO Antenna (305mm X 305mm X 15mm) See page 35	<u>5.15-5.875 GHz</u> 4 x 16.5 dBi Vertical, Horizontal & Dual Slant $\pm 45^\circ$	

Dual Polarized MIMO CPE Antennas



MA-WC25-DS16

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

See page 64

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 65

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

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 60	Gain
		23 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 59	Gain
		19 ± 1 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 83	Gain
		14 dBi
		Polarization
		Dual Vertical & Horizontal

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

	MA-WA22-DP8 Dual Polarization/Slant Subscriber (112mm X 112mm) covering 1.7-2.7 GHz See page 36		Gain	
			8 dBi	
			Polarization	
			<u>Dual Pole</u> Linear Vertical & Horizontal	<u>Dual Slant (opt.)</u> $\pm 45^\circ$ (diamond shape)

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

	MA-WA25-DP9 Dual Polarization/Slant Subscriber (112mm X 112mm) covering 2.3-2.7 GHz See page 39		Gain	
			8 ± 1 dBi	
			Polarization	
			<u>Dual Pole</u> Linear Vertical & Horizontal	<u>Dual Slant (opt.)</u> $\pm 45^\circ$ (diamond shape)

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

	MA-WA36-DP9 Dual Polarization/Slant Subscriber (112mm X 112mm) covering 3.3-4.01 GHz See page 44		Gain	
			8 ± 1 dBi	
			Polarization	
			<u>Dual Pole</u> Linear Vertical & Horizontal	<u>Dual Slant (opt.)</u> $\pm 45^\circ$ (diamond shape)

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

	MA-WA56-DP13 Dual Polarization/Slant Subscriber (112mm X 112mm) covering 4.9-6.1 GHz See page 50		Gain	
			H-pol 14.5 dBi	V-pol 13.5 dBi
			Polarization	
			<u>Dual Pole</u> Linear Vertical & Horizontal	<u>Dual Slant (opt.)</u> $\pm 45^\circ$ (diamond shape)

High Gain Vertical or Horizontal Polarized Antenna



MA-WA48-23

High Gain (**23 dBi**)
Vertical or Horizontal
Polarized Antenna
covering
4.4-5.1 GHz

See page 124

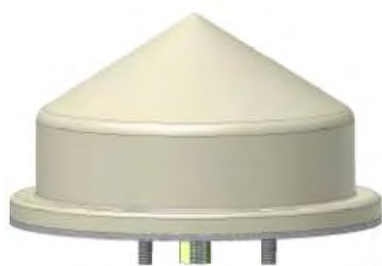
Gain

23 dBi

Polarization

Linear, Vertical & Horizontal

Active GPS Antenna



MA-AGP15-5

Active GPS Antenna
features stable and
efficient
performance

covering
1575.42±2 MHz

See page 217

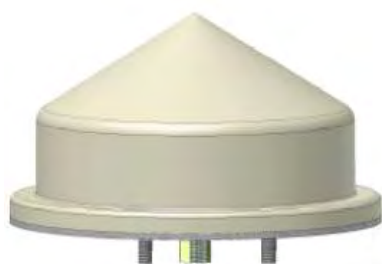
LNA Gain, typ.

25 dB

Gain Characteristics of Antenna Element

+5.0 dBic minimum at zenith
-10 dBic minimum at 0° elevation

Passive GPS Antenna



MA-PGP15-5

Passive GPS
Antenna features
stable and efficient
performance

covering
1575.42±2 MHz

See page 218

Gain, min.

5 dBic

Gain Characteristics of Antenna Element

-10 dBic minimum at 0° elevation

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 &
4.9-6.0 GHz

See page 221

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 222

Gain

5.15-6.10 GHz
34 dBi

4.90-5.15 GHz
32 dBi

Polarization

Dual polarized

Dual Polarized / Dual Slant Parabolic Dish Antenna, 1.2m



MA-WP61-DP35

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

Covering
4.9-6.1 GHz

See page 223

Gain

5.7-6.5 GHz
35 dBi

Polarization

Dual polarized / Dual Slant

Wide Band Blade Antenna for Mobile Applications

MA-VM1765-5 (Bottom Mount)  Ruggedized and Aerodynamic Wide Band Blade antenna covering 1.7-6.5GHz See page 198	MA-VM1765-5S (Magnetic Mount)  See page 199	Polarization			
		Linear, Vertical			
		Polarization			
		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

 MA-WA56-DP23 Dual Polarization/Slant Subscriber Antenna (305mm X 305mm X 15mm) covering 4.9-6.1 GHz See page 53	Gain	
	23 ± 1 dBi	
	Polarization	
	<u>Dual Pole</u> Linear Vertical & Horizontal	<u>Dual Slant (opt.)</u> ± 45° (diamond shape)

Mid / High Gain 120° Dual Polarization Base Station Antenna

 MA-WE56-DP15 120° Dual Polarization Base Station Antenna (370mm X 370mm X 40mm) covering 5.15-5.875 GHz See page 79	Gain	
	14.5 dBi	
	Polarization	
	Dual, Vertical & Horizontal	

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

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

	MA-WA25-DP23 22-24 dBi gain Dual Polarization/Slant Subscriber Antenna covering 2.3-2.7 GHz See page 43	Gain	
		23 ± 1 dBi	
		Polarization	
		Linear, Vertical & Horizontal	

High Gain Dual Pole/Slant Subscriber for 3.5GHz

	MA-WA36-DP25 High Gain (24-26 dBi) Dual Pole/Slant Antenna covering 3.3-3.8 GHz See page 48	Gain	
		25 ± 1 dBi	
		Polarization	
		Linear, Vertical & Horizontal	

High Gain Dual Pole/Slant Full 5GHz spectrum

	MA-WA56-DP28N High Gain (26-29.5 dBi) Wideband Dual Pole/Slant Antenna Covering Full 5GHz spectrum 4.7-6.425 GHz See page 55	Gain (dBi)					
		GHz	4.7-4.9	4.9-5.15	5.15-5.875	5.875-6.1	6.1-6.425
		V-Pol	28±1	28.5±0.5	29±0.5	28.5±0.5	27.5±1
		H-Pol	27±1	28±0.5	28.5±0.5	28±1	27±1
		Polarization					
		Dual Pole Vertical & Horizontal			Dual Slant (opt.) ± 45°		

High Gain Dual Pole/Slant Subscriber for 6GHz

	MA-WA62-DP30 High Gain (28-30 dBi) Dual Pole/Slant Antenna covering 5.3-6.5 GHz See page 56	Gain	
		29 ± 1 dBi	
		Polarization	
		Dual polarization Vertical & Horizontal	

High Gain Subscriber Full 5 & 6 GHz spectrum

	MA-WA62-30 High Gain (30 dBi) Dual Pole/Slant Antenna covering Full 5 & 6 GHz spectrum 4.9-6.5 GHz See page 132	Gain		
		4.9-5.15 GHz 28.5 dBi	5.15-5.875 GHz 29 dBi	6.8. 6-5.6GHz 30 dBi
		Polarization		
		Linear, Vertical		

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 135	Gain	
		<u>740-960 MHz</u> 4 dBi	<u>1710-2700 MHz</u> 6 dBi
		Polarization	
		Linear, Vertical	