



**Known as the brazilian industry leader for the ISP's market,  
ALGcom designs and manufactures High Performance  
Antennas and telecom Accessories.**

*With more then 30.000 installed digital radio links, ALGcom  
is the ultimate antenna solution for sidelobe supression.*

**ANTENNAS  
ACCESSORIES  
OUTDOOR AND INDOOR RACKS  
MOUNTING HARDWARES  
AC/DC UPS**



# 5,8 GHz SOLUTIONS

## ANTENNAS

### Ultra high performance antenna

Point to Point

- More stable connections with maximum throughput over short and long distances
- Side shielding ensures excellent irradiation efficiency in very high interference environment
- The radome increases link life and performance on rainy days
- Side lobes suppressed to levels below 40 dB



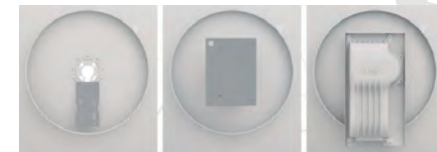
PS-5800-29-06-DP-UHP PS-5800-32-09-DP-UHP

FREQUENCY	5,250 GHz to 5,875 GHz	
DIAMETER	0,6 m	0,9 m
LINK DISTANCE	Up to 30 km	Up to 50 km
GAIN (5,8 GHz)	29,5 dBi	32,5 dBi
FRONT-TO-BACK	>55 dB	>59 dB
ISOLATION BETWEEN PORTS	>30 dB	
POLARIZATION	Double (V/H) or Slant (+/- 45°)	
CONNECTION	SMA Female reverse	
WEIGHT	10 kg	27 kg

### Parabolic shielded antenna

Point to Point

- More stable connections with maximum throughput over short and long distances
- Side shielding ensures excellent irradiation efficiency in high interference
- The radome increases link life and performance on rainy days
- Side lobes suppressed to levels below 40 dB insulation



Assembly Flexibility

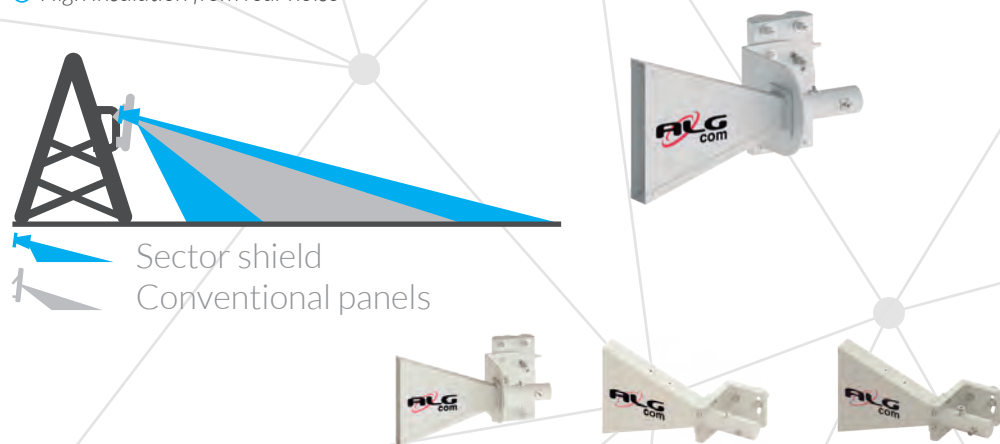


FREQUENCY	PS-5800-22-03-DP	PS-5800-29-06-DP	PS-5800-32-09-DP	PS-5800-34-12-DP
DIAMETER	0,3 m	0,6 m	0,9 m	1,2 m
LINK DISTANCE	Up to 10 km	Up to 30 km	Up to 50 km	More than 50 km
GAIN (5,8 GHz)	23,7 dBi	30,1 dBi	33,5 dBi	35,8 dBi
FRONT-TO-BACK	>45 dB	>48 dB	>54 dB	>57 dB
ISOLATION BETWEEN PORTS	>30 dB			
POLARIZATION	Double (V/H) or Slant (+/- 45°)			
CONNECTION	SMA Female reverse			
WEIGHT	3,7 kg	7,9kg	21,3 kg	32,5 kg

## Sectorial shielded antenna

Point-Multipoint

- Double coverage with same gain of conventional panels (18° Vertical)
- Excellent vertical/horizontal shielding through the reduction of side lobes
- High insulation from rear noise



	PD-5800-15-60-DP	PD-5800-15-60-DP-ST	PD-5800-15-60-DP-STN
<b>FREQUENCY</b>	5,250 GHz to 5,875 GHz		
<b>GAIN (5,8 GHz)</b>	15 dBi		
<b>FRONT-TO-BACK</b>	>30 dB		
<b>HALF-POWER ANGLE (V)</b>	18°		
<b>HALF-POWER ANGLE (H)</b>	60°		
<b>ISOLATION BETWEEN PORTS</b>	>19 dB		
<b>POLARIZATION</b>	Double (V/H)		
<b>CONNECTION</b>	SMA female reverse		
<b>WEIGHT</b>	3,7 kg	7,9 kg	21,3 kg

## Dish antenna

Point to Point

- Best option for low noise environment
- Excellent bandwidth
- Includes pair of High Performance Pigtailed and 5.8 GHz Radio Fastening Kit



	PA-5800-29-06-DP	PA-5800-29-06-DP-ST	PA-5800-32-09-DP	PA-5800-34-12-DP
<b>FREQUENCY</b>	4,9 GHz to 5,875 GHz			
<b>DIAMETER</b>	0,6 m	0,6 m	0,9 m	1,2 m
<b>LINK DISTANCE</b>	Up to 30 km	Up to 30 km	Up to 50 km	More than 50 km
<b>GAIN (5,8 GHz)</b>	29 dBi	30,1 dBi	33,5 dBi	35,8 dBi
<b>FRONT-TO-BACK</b>	>40 dB	>48 dB	>54 dB	>57 dB
<b>ISOLATION BETWEEN PORTS</b>	>30 dB			
<b>POLARIZATION</b>	Double (V/H)			
<b>CONNECTION</b>	SMA Female reverse			
<b>WEIGHT</b>	4,1 kg	5,5 kg	9,5 kg	22,9 kg

# SOLUTIONS FOR DIGITAL RADIO

## ANTENNAS

### Microwave

4,0 / 4,8 / 6,8 and 7,8 GHz

- Antennas approved by Anatel\* with Class 2A in Simple and Dual Polarization (\*Brazilian Regulamentary Agency)
- Side shield with RF absorber ensures secondary lobe reduction
- Radome increases the life span and performance on rainy days

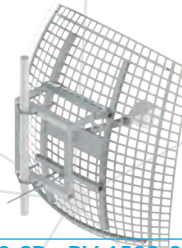


	PS 4000	PS 4800	PS 7800
	<b>PS-4000-29-09-DP</b> <b>PS-4000-31-12-DP</b>	<b>PS-4800-27-06-DP</b> <b>PS-4800-30-09-DP</b> <b>PS-4800-32-12-DP</b>	<b>PS-6800-31-06-SP</b> <b>PS-6800-31-06-DP</b> <b>PS-6800-34-09-SP</b> <b>PS-6800-34-09-DP</b> <b>PS-6800-36-12-SP</b> <b>PS-6800-36-12-DP</b>
FREQUENCY	3,7 GHz to 4,3 GHz	4,4 GHz to 5,0 GHz	6,425 GHz to 7,125 GHz
DIAMETER	0,9 m	0,6 m	0,6 m
GAIN (5,8 GHz)	30 dBi	28 dBi	29,3 dBi
FRONT-TO-BACK	> 35dB	> 35 dBi	> 45dB
HALF-POWER ANGLE	5°	5,5°	4,8°
ISOLATION BETWEEN PORTS	>25 dB	>30 dB	>30 dB
POLARIZATION	Double (V/H)	Double (V/H)	Single (V/H) and Double (V/H)
WEIGHT	21,3 kg	7,9 kg	13 kg
			13 kg + OMT
			21,3 kg
			21,3 kg + OMT
			37 kg
			37 kg + OMT
			13 kg
			13 kg + OMT
			21,3 kg
			21,3 kg + OMT
			37 kg
			37 kg + OMT

## Grid antennas

1,5 GHz and 2,2 GHz

- High quality materials: aluminium with high resistance ensuring a great performance
- Dual polarization: digital radio link with high capacity to point-to-point transmission
- Reflector Surface developed with high mechanical precision, providing a better radiation efficiency



	PV-1500	PV-1500-23-12-SP	PV-1500-27-20-SP	PV-1500-31-30-SP	PV-1500-33-40-SP
		PV-1500-23-12-DP	PV-1500-27-20-DP	PV-1500-31-30-DP	PV-1500-33-40-DP
FREQUENCY			1,425 MHz to 1,535 MHz		
DIAMETER		1,2 m	2,0 m	3,0 m	4,0 m
GAIN (5,8 GHz)		23 dBi	27 dBi	31 dBi	36,6 dBi
FRONT-TO-BACK		> 37dB	> 38 dBi	> 43 dBi	> 46 dBi
HALF-POWER ANGLE		9,5°	6,4°	5,5°	3,2°
ISOLATION BETWEEN PORTS			> 30 dB		
POLARIZATION			Single (V/H) and Double (V/H)		
WEIGHT (SP MODEL)		16,6 kg	49 kg	109 kg	169 kg
WEIGHT (DP MODEL)			54 kg	113 kg	187 kg

	PV-2150	PV-2150-25-12-SP	PV-2150-29-20-SP	PV-2150-33-30-SP	PV-2150-35-40-SP
		PV-2150-25-12-DP	PV-2150-29-20-DP	PV-2150-33-30-DP	PV-2150-35-40-DP
FREQUENCY			2,00 MHz to 3,00 MHz		
DIAMETER		1,2 m	2,0 m	3,0 m	4,0 m
GAIN (5,8 GHz)		25,2 dBi	29,3 dBi	33,3 dBi	35,2 dBi
FRONT-TO-BACK		> 34 dB	> 37 dB	> 42 dB	> 44 dB
HALF-POWER ANGLE		6,7°	4,8°	3,8°	2,9°
ISOLATION BETWEEN PORTS			> 30 dB		
POLARIZATION			Single (V/H) and Double (V/H)		
WEIGHT (SP MODEL)		18,6 kg	51 kg	115 kg	177 kg
WEIGHT (DP MODEL)		18,6 kg	58 kg	119 kg	195 kg

## Indoor panels

PS-880-1900-10-00

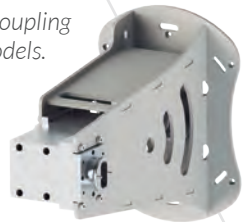
- Compact and lightweight antenna
- Easy and quick installation
- Solution for point-to-point and point-to-multipoint transmission



## ACCESSORIES

### OMT

- Complete solutions for the double polarization coupling system and customizable fit for various radio models.



### Flexible wave guides

- Flexible in both directions (E and H), excellent performance, very low loss and weather proof.



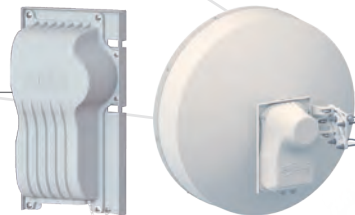


# ACCESSORIES

## Outdoor enclosure

*Fit and Master*

- RF protection from external noise
- Increased equipment life span
- Radio mounting plate groudted to the tower structure
- Universal socket for various types of radios



## Duplexer

*5,8 GHz 4x4*

- Designed with a high quality standard, allowing the use of two radios per antenna



## High performance pigtails

*NM-SMAMR-MMCX*

- 100% manufactured and tested by ALGcom with cutting, stripping and welding automation
- High-quality semi-rigid cable ensuring great signal stability
- Attenuation chart included
- Compatible with all radio models



## Radio assembly kit

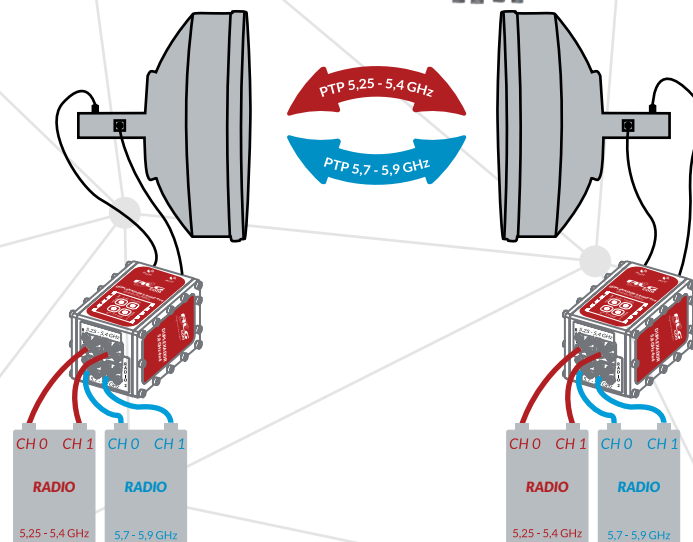
*Radio 5,8 GHz*

- UV and corrosion resistant
- Universal assembly for various types of radio



# MOUNTING HARDWARES

- Various models with universal fitting
- Do not need additional cut or holes
- Compact packaging that facilitates logistic and reduce transportation costs
- Easy and quick installing, with reduced number of components



TOWER CORNER MOUNTS



TOWER FACE MOUNTS



ROOFTOP



WALL

# CABINETS

- Ingress protection - water, dirt and insects
- Excelent circulation system and air exchange
- Anti-vandalism protection with metallic door hinges and locks
- Easy installation and cable adjustment

## Aluminium



12U

## Steel



12U  
Battery  
Compartment

Control cabinet	5U Space for Battery
6U	6U Battery Compartment
8U	6U Standard
10U	10U
12U	24U
12U Double Wall	Battery Compartment
12U Battery Compartment	12U Battery Compartment

# AC/DC UPS

- Compact and easy to instal with 3 stages battery charger
- Microcontrolled smart source
- Protection against surge, blackout, noise and over-currents
- SNMP Interface



12V/10A



24V/10A



12V/10A SNMP



24V/10A SNMP



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Technology for professional links

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Brasil



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