



## P1-BU15-N0

P1-BU15-N0N

### Features

- 2 ports / 1 cross pol system in low band (694-960 MHz)
- 2 ports / 1 cross pol system in high band (1427-2690 MHz)
- Integrated and field replaceable SRET
- Optional with Direct Pipe No Tilt mounting hardware (Model name suffix -N0N)
- Compliant with AISG v2.0 and 3GPP

PRODUCT OVERVIEW	Frequency Range (MHz)	(1x) 694-960	(1x) 1427-2690
	Array	 R1	 Y1
	Connector	1-2	3-4
		4 PORTS	
	Polarization	XPOL	
	Azimuth Beamwidth (avg)	65°	65°
	Electrical Downtilt	2-12°	2-12°
	Dimensions	1498 x 278 x 168 mm (59.0 x 10.9 x 6.6 in)	

### ORDERING OPTIONS

Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT	MOUNTING HARDWARE WEIGHT
P1-BU15-N0	ACU-I20-H12I Internal RET Included	APM50-H1 Beam Tilt Kit Included	50-125 mm (2.0-4.9 in)	19.6 kg (43.2 lbs)	4 kg (8.8 lbs)
P1-BU15-N0N	ACU-I20-H12I Internal RET Included	APM50-H1N Direct Pipe No Tilt Mounting Kit Included	50-125 mm (2.0-4.9 in)	18.9 kg (41 lbs)	3 kg (6.6 lbs)



Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

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### ELECTRICAL SPECIFICATIONS

R1

Frequency Range		MHz	694-960		
		MHz	694-806	790-894	880-960
Polarization		---	±45°		
Gain	Over all Tilts	dBi	14.6 ± 0.7	14.8 ± 0.6	14.8 ± 0.6
	Max Gain	dBi	15.3	15.4	15.4
Azimuth Beamwidth (3 dB)		degrees	73.9° ± 2.6°	70.2° ± 2.4°	66° ± 2.7°
Elevation Beamwidth (3 dB)		degrees	15.1° ± 1.2°	13.7° ± 0.8°	12.8° ± 0.7°
Electrical Downtilt		degrees	2-12°		
Impedance		Ohms	50Ω		
VSWR (Return Loss)		---	1.5:1 (-14 dB)		
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153		
Front-to-Back Ratio, Total Power, ± 30°		dB	21.5	22.1	23.2
First Upper Side Lobe Suppression		dB	15.8	17.3	17.7
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	19.7	19.7	21.3
Maximum Effective Power Per Port		Watts	250 W		
Cross Polar Isolation		dB	26		
Interband Isolation		dB	28		

Specifications follow BASTA guidelines.

### ELECTRICAL SPECIFICATIONS

Y1

Frequency Range		MHz	1427-2690				
		MHz	1427-1518	1695-1880	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	16.6 ± 0.6	17.4 ± 0.5	17.7 ± 0.3	17.3 ± 0.5	17.5 ± 0.5
	Max Gain	dBi	17.2	17.9	18	17.8	18
Azimuth Beamwidth (3 dB)		degrees	60° ± 4°	62.4° ± 5.2°	66.5° ± 4.2°	59.7° ± 3.5°	55.6° ± 5.5°
Elevation Beamwidth (3 dB)		degrees	7.7° ± 0.5°	6.5° ± 0.6°	5.8° ± 0.4°	5.5° ± 0.3°	5.2° ± 0.3°
Electrical Downtilt		degrees	2-12°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153				
Front-to-Back Ratio, Total Power, ± 30°		dB	26.2	22.8	23.1	23	22.8
First Upper Side Lobe Suppression		dB	15.3	15.4	16	19.2	16.4
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	23.4	25.5	25.1	21.1	22.2
Maximum Effective Power Per Port		Watts	200 W				
Cross Polar Isolation		dB	26				
Interband Isolation		dB	28				

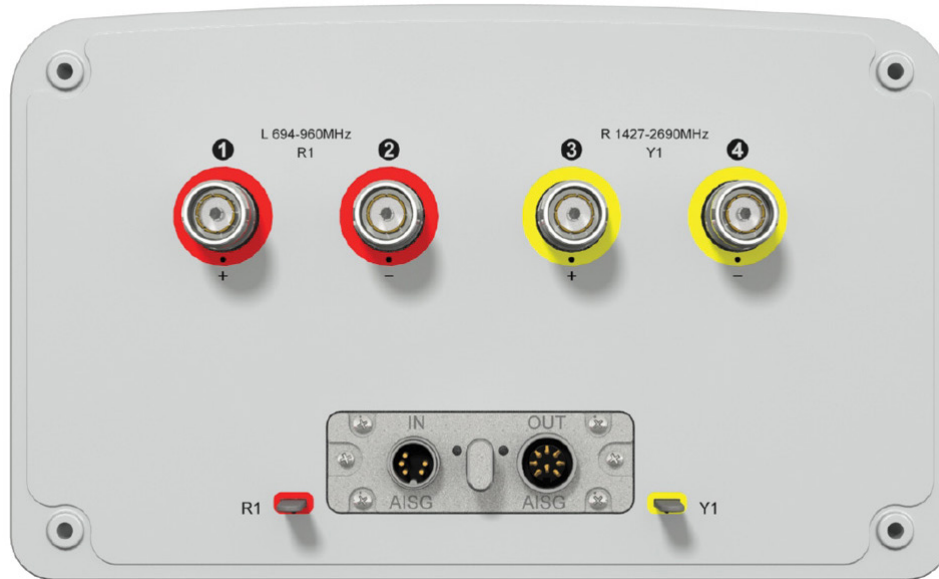
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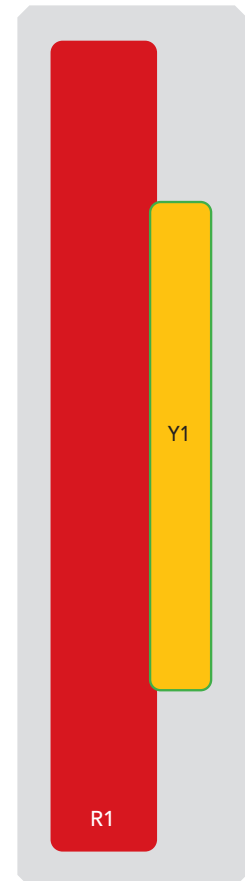
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### BOTTOM VIEW - LABELING



### ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
<span style="color: red;">■</span> R1	694-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxxx-R1
<span style="color: yellow;">■</span> Y1	1427-2690 MHz	3-4	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxx-Y1



The illustration is not shown to scale.

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### MECHANICAL SPECIFICATIONS

Length		mm (in)	1498 (59.0)
Width		mm (in)	278 (10.9)
Depth		mm (in)	168 (6.6)
Net Weight - Antenna Only		kg (lbs)	12.6 (27.8)
Wind Load  Rated at 150 km/h (93 mph)	Front	N (lbf)	501 (113)
	Side	N (lbf)	335 (75)
	Rear	N (lbf)	399 (90)
Survival Wind Speed / Rated Wind Speed		km/h (mph)	200 (150)
Connector Type		--	(4x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom
Radome Color		---	Light Grey
Radome Material		---	Fiberglass
Lightning Protection		---	DC Ground
<b>Shipping</b>	Packing Size (Length x Width x Depth)	mm (in)	1678 x 373 x 278 (66.1 x 14.7 x 10.9)

### ENVIRONMENTAL SPECIFICATIONS

Environmental Standard	---	ETS 300 019
Operating Temperature	degrees	-40° to +60° C (-40° to +140° F)
Product Environmental Compliance	---	Product is RoHS Compliant

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### ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) <i>Refer to ordering options</i>	APM50-H1	4 kg (8.8 lbs)
Direct Pipe No Tilt Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) <i>Refer to ordering options</i>	APM50-H1N	3 kg (6.6 lbs)

### INSTALLATION Please read all installation notes before installing product.

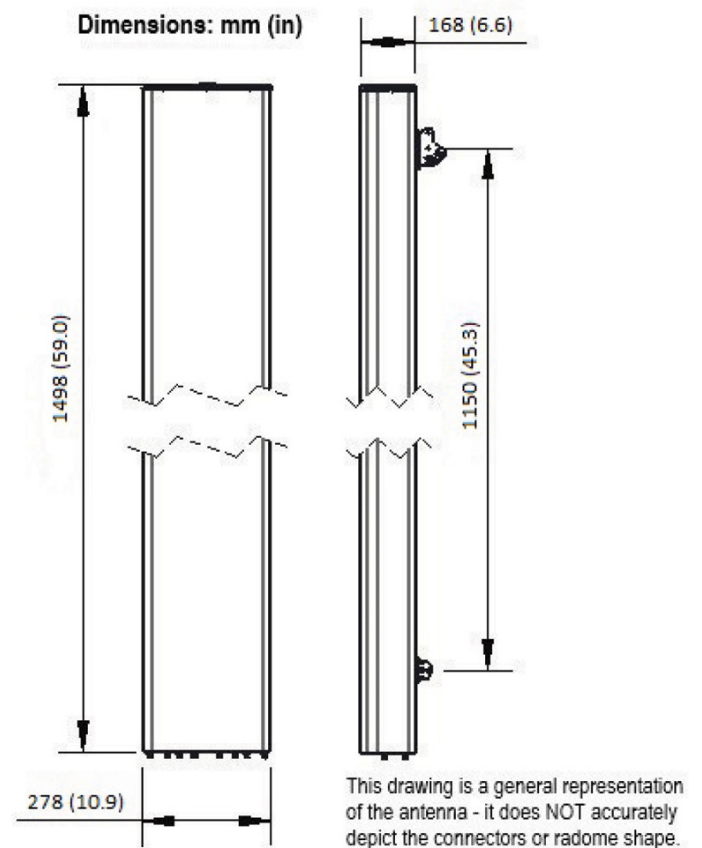


Always attach the antenna using all mounting points.

Do not install antenna with the connectors facing upwards.

### EXTERNAL DOCUMENT LINKS

[APM50 Mounting Kit Series Installation Instructions](#)



### NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check **External Document Links**.

For Radiating Patterns: [Request pattern files](#)