

(1x) 694-960 | (1x) 1427-2690 MHz

65°

1498 mm INTEGRATED RET

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

	Frequency Range (MHz)	(1x) 694-960	(1x) 1427-2690			
>	Array	■ R1	■ Y1			
RVE	Caracata	1-2	3-4			
OVERVIEW	Connector	4 PORTS				
	Polarization	XPOL				
PRODUCT	Azimuth Beamwidth (avg)	65°	65°			
PR	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

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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-NON	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)		







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D1

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Frequency Range

Polarization

Gain

ELECTRICAL SPECIFICATIONS

Over all Tilts

Max Gain

Azimuth Beamwidth (3 dB)

Elevation Beamwidth (3 dB)

3rd Order for 2x20 W Carriers

Front-to-Back Ratio, Total Power, ± 30°

First Upper Side Lobe Suppression

Cross Polar Discrimination (XPD)

at Mechanical Boresight (0°) Maximum Effective Power Per Port

Cross Polar Isolation

Interband Isolation

Electrical Downtilt

VSWR (Return Loss) Passive Intermodulation

Impedance

MHz MHz

dBi

dBi

degrees

degrees

degrees

Ohms

dBc

dB

dB

dB

dB

Watts

	■ K1	
	694-960	
694-806	790-894	880-960
	±45°	
14.6 ± 0.7	14.8 ± 0.6	14.8 ± 0.6
15.3	15.4	15.4
73.9° ± 2.6°	70.2° ± 2.4°	66° ± 2.7°
15.1° ± 1.2°	13.7° ± 0.8°	12.8° ± 0.7°
	2-12°	
	50Ω	
	1.5:1 (-14 dB)	
	-153	

Specifications follow BASTA guidelines.

23.2

17.7

21.3

ELECTRICAL SPECIFICATIONS

V1
T I

22.1

17.3

19.7

250 W

26

28

Frequency Range		MHz	1427-2690					
		MHz	1427-1518	1695-1880	1920-2170	2300-2400	2490-2690	
Polarization			±45°					
Cair	Over all Tilts	dBi	16.6 ± 0.6	17.4 ± 0.5	17.7 ± 0.3	17.3 ± 0.5	17.5 ± 0.5	
Gain	Max Gain	dBi	17.2	17.9	18	17.8	18	
Azimuth Bear	mwidth (3 dB)	degrees	60° ± 4°	62.4° ± 5.2°	66.5° ± 4.2°	59.7° ± 3.5°	55.6° ± 5.5°	
Elevation Bea	amwidth (3 dB)	degrees	7.7° ± 0.5°	6.5° ± 0.6°	5.8° ± 0.4°	5.5° ± 0.3°	5.2° ± 0.3°	
Electrical Do	wntilt	degrees			2-12°			
Impedance	Impedance				50Ω			
VSWR (Return Loss)			1.5:1 (-14 dB)					
	Passive Intermodulation 3rd Order for 2x20 W Carriers		-153					
Front-to-Back	k Ratio, Total Power, ± 30°	dB	26.2	22.8	23.1	23	22.8	
First Upper S	ide 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 V		Watts	200 W					
Cross Polar Is	Cross Polar Isolation		26					
Interband Isc	lation	dB	28					

21.5

15.8

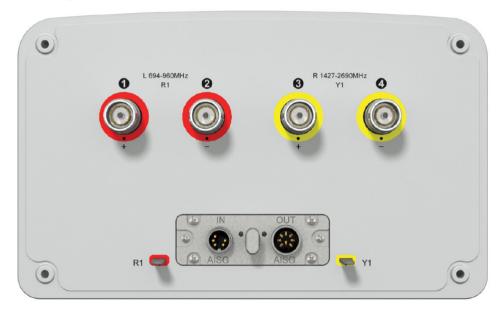
19.7

Specifications follow BASTA guidelines.

P1-BU15-N0

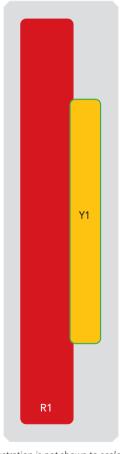
P1-BU15-N0N

BOTTOM VIEW - LABELING



ARRAY LAYOUT

	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
	■ R1	694-960 MHz 1-2		(2x) 4.3-10 Female	R1	RFxxxxxxxxxxx-R1
-	■ 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		Front	N (lbf)	501 (113)		
Rated at		Side	N (lbf)	335 (75)		
150 km/h (9	Rear		N (lbf)	399 (90)		
Survival Wir	Survival Wind Speed		km/h (mph)	200 (124)		
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			
Shipping 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) Refer to ordering options	APM50-H1	4 kg (8.8 lbs)
Direct Pipe No Tilt Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) Refer to ordering options	APM50-H1N	3 kg (6.6 lbs)

INSTALLATION Please read all installation notes before installing product.

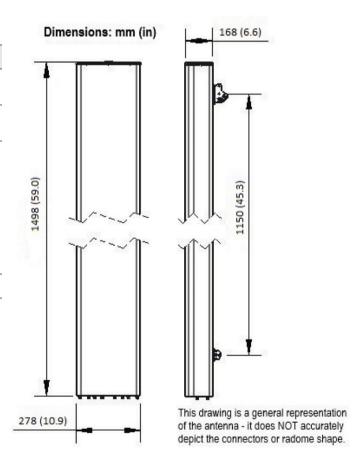


Always attach the antenna using all mounting points.

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