

P1-BUU26-N0

Features

- 2 ports / 1 cross pol system in low band (694-960 MHz)
- 4 ports / 2 cross pol systems in high band (1427-2690 MHz)
- Supporting 4x4 MIMO in high band
- Integrated and field replaceable SRET
- ACU HW version: HRLS200608H1.00
- Compliant with AISG v2.0 and 3GPP



PRODUCT OVERVIEW	Frequency Range (MHz)	(1x) 694-960		(2x) 1427-2690	
	Array	<div><div></div> R1</div>		<div><div></div> Y1</div>	<div><div></div> Y2</div>
	Connector	1-2		3-4	5-6
		6 PORTS			
	Polarization	XPOL			
	Azimuth Beamwidth (avg)	65°		65°	
	Electrical Downtilt	2-12°		2-12°	
	Dimensions	2498 x 378 x 158 mm (98.3 x 14.9 x 6.2 in)			

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
P1-BUU26-N0	ACU-I20-H13 Internal RET Included	APM50-H2 Beam Tilt Kit Included	50-125 mm (2.0-4.9 in)	39.1 kg (86.2 lbs)

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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	16.1 ± 0.6	16.6 ± 0.3	16.7 ± 0.3
	Max Gain	dBi	16.7	16.9	17.0
Azimuth Beamwidth (3 dB)		degrees	65.1° ± 1.9°	62° ± 2.4°	60.6° ± 1.6°
Elevation Beamwidth (3 dB)		degrees	8.7° ± 0.6°	7.7° ± 0.6°	7.1° ± 0.3°
Electrical Downtilt		degrees	2-12°		
Impedance		Ohms	50Ω		
VSWR (Return Loss)		---	1.5:1 (-14 dB)		
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)		
Front-to-Back Ratio, Total Power, ± 30°		dB	27.2	26.4	24.5
First Upper Side Lobe Suppression		dB	15.3	16.8	15.7
Cross Polar Discrimination Over Sector		dB	10.6	9.5	7
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	21.8	24.5	24.9
Maximum Effective Power Per Port		Watts	250 W		
Cross Polar Isolation		dB	26		
Interband Isolation		dB	25		

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	15.5 ± 0.5	16.1 ± 1.1	17.1 ± 0.7	16.7 ± 0.9	16.8 ± 0.7
	Max Gain	dBi	16.0	17.2	17.8	17.6	17.5
Azimuth Beamwidth (3 dB)		degrees	74.9° ± 8°	62.8° ± 4.8°	60.6° ± 4.2°	64.1° ± 1.5°	61.2° ± 3.5°
Elevation Beamwidth (3 dB)		degrees	7.7° ± 0.4°	6.2° ± 0.7°	5.5° ± 0.5°	4.9° ± 0.3°	4.6° ± 0.3°
Electrical Downtilt		degrees	2-12°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)				
Front-to-Back Ratio, Total Power, ± 30°		dB	26.8	26	26.2	24.8	23
First Upper Side Lobe Suppression		dB	15.1	15.5	13.6	13.8	13.2
Cross Polar Discrimination Over Sector		dB	12	13.8	8.2	4.5	1.4
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	29.5	24.8	22.6	22.8	23.1
Maximum Effective Power Per Port		Watts	200 W				
Cross Polar Isolation		dB	26				
Interband Isolation		dB	25				

Specifications follow BASTA guidelines.

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

■ Y2

Frequency Range		MHz	1427-2690				
		MHz	1427-1518	1695-1880	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	15.5 ± 0.6	16.4 ± 0.8	17.3 ± 0.5	17.0 ± 0.5	17.3 ± 0.4
	Max Gain	dBi	16.1	17.2	17.8	17.5	17.7
Azimuth Beamwidth (3 dB)		degrees	76.5° ± 8°	61.4° ± 7.2°	61° ± 3.1°	62.6° ± 1.6°	58.4° ± 4°
Elevation Beamwidth (3 dB)		degrees	7.6° ± 0.4°	6.2° ± 0.5°	5.5° ± 0.5°	4.9° ± 0.3°	4.5° ± 0.3°
Electrical Downtilt		degrees	2-12°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)				
Front-to-Back Ratio, Total Power, ± 30°		dB	23.6	24.8	25.1	24.9	24.9
First Upper Side Lobe Suppression		dB	14.6	14.7	16.4	15.1	15.2
Cross Polar Discrimination Over Sector		dB	11.3	14.2	7.3	3.6	1.2
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	25.2	22.9	22.9	25.9	27
Maximum Effective Power Per Port		Watts	200 W				
Cross Polar Isolation		dB	26				
Interband Isolation		dB	25				

Specifications follow BASTA guidelines.

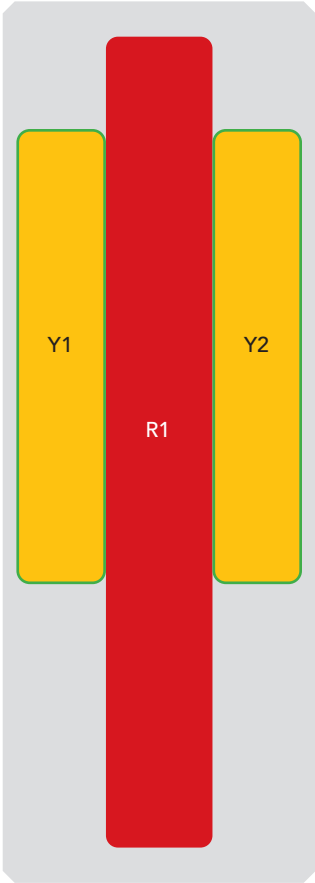
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BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
■ R1	694-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxxx-R1
■ Y1	1427-2690 MHz	3-4	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxx-Y1
■ Y2	1427-2690 MHz	5-6	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxx-Y2



The illustration is not shown to scale.

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MECHANICAL SPECIFICATIONS

Length		mm (in)	2498 (98.3)
Width		mm (in)	378 (14.9)
Depth		mm (in)	158 (6.2)
Net Weight - Antenna Only		kg (lbs)	28.2 (62.2)
Net Weight - Mounting Hardware Only		kg (lbs)	5.5 (12.1)
Wind Load Rated at 150 km/h (93 mph)	Front	N (lbf)	616 (138)
	Side	N (lbf)	551 (124)
	Rear	N (lbf)	714 (161)
Survival Wind Speed / Rated Wind Speed		km/h (mph)	200 (150)
Connector Type		--	(6x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom
Radome Color		---	Light Grey RAL7035
Radome Material		---	Fiberglass
Lightning Protection		---	DC Ground
Shipping	Packing Size (Length x Width x Depth)	mm (in)	2698 x 473 x 278 (106.2 x 18.6 x 10.9)
	Shipping Weight	kg (lbs)	39.1 (86.2)

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.

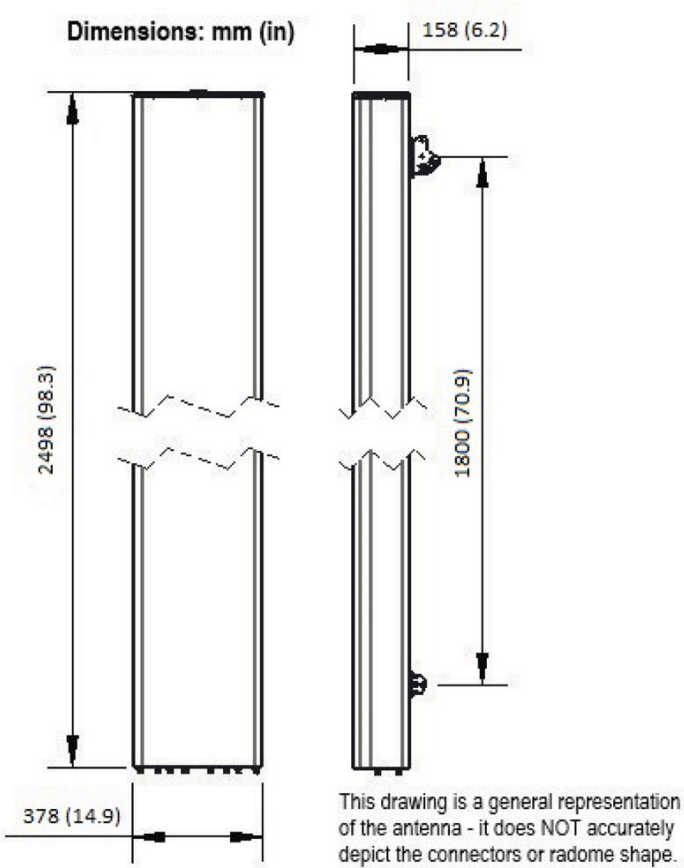
ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) <i>Shipped with antenna</i>	APM50-H2	5.5 kg (12.1 lbs)

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](#)