

(2x) 698-960 | (2x) 1710-2690 MHz

65° 2000 mm INTEGRATED RET

APXVBBLL20B2_43-C-I20

Features

- 4 ports / 2 cross pol systems in low band (698-960 MHz)
- 4 ports / 2 cross pol systems in high band (1710-2690 MHz)
- Integrated and field replaceable SRET
- Compliant with AISG v2.0 and 3GPP

OVERVIEW	Frequency Range (MHz)	(2x) 69	28-960	(2x) 1710-2690				
	Array	R 1	R 2	<mark> </mark> Y1	Y 2			
		1-2	3-4	5-6	7-8			
OVER	Connector	8 PORTS						
	Polarization	XPOL						
PRODUCT	Azimuth Beamwidth (avg)	6!	5°	65°				
4	Electrical Downtilt	2-12° 2-12°						
	Dimensions		2000 x 469 x 205 mm	n (78.7 x 18.5 x 8.1 in)				

ORDERING OPTIONS Select from the following ordering options

ANTENNA	CONFIGURATION	MOUNTING	MOUNTING PIPE	SHIPPING	MOUNTING
MODEL NUMBER		HARDWARE	DIAMETER	WEIGHT	HARDWARE WEIGHT
APXVBBLL20B2_43-C-I20	ACU-120-B4 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	41.9 kg (92.4 lbs)	4.5 kg (9.9 lbs)





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📕 R1 📕 R2

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ELECTRICAL SPECIFICATIONS

Frequency Range		MHz		698-960				
		MHz	698-806 790-894 880-					
Polarization	n		±45°					
	Over all Tilts	dBi	15.0 ± 0.5	15.4 ± 0.4	15.5 ± 0.4			
Gain	Max Gain	dBi	15.5	15.8	15.9			
Azimuth Be	eamwidth (3 dB)	degrees	69.4° ± 3.7°	68.2° ± 3.6°	67.3° ± 4.9°			
Elevation Beamwidth (3 dB)		degrees	12.7° ± 0.8°	11.6° ± 0.8°	10.6° ± 0.7°			
Electrical Downtilt		degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
Passive Intermodulation 3rd Order, 2 x 43dBm		dBc	-153					
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	22.8	25.2	25.4			
First Upper	r Side Lobe Suppression	dB	19.0	18.3	16.0			
Cross Polar Discrimination at Boresight		dB	21.6 20.1 20		20.8			
Maximum Effective Power Per Port		Watts	300 W					
Cross Polar Isolation		dB	26					
Interband Isolation		dB	26					

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS					<mark> Y1 Y2</mark>			
Frequency I	Range	MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2200	2200-2490	2500-2690	
Polarization					±45°	·		
Cali	Over all Tilts	dBi	17.7 ± 0.6	17.6 ± 0.6	17.5 ± 0.6	16.9 ± 0.7	16.9 ± 0.7	
Gain	Max Gain	dBi	18.3	18.2	18.1	17.6	17.6	
Azimuth Beamwidth (3 dB)		degrees	63.4° ± 5.0°	60.6° ± 4.8°	60.6° ± 5.8°	66.0° ± 6.9°	60.0° ± 8.3°	
Elevation Beamwidth (3 dB)		degrees	$6.6^{\circ} \pm 0.4^{\circ}$	6.2° ± 0.5°	6.0° ± 0.6°	5.4° ± 0.2°	4.9° ± 0.3°	
Electrical Downtilt		degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Retu	VSWR (Return Loss)		1.5:1 (-14 dB)					
Passive Intermodulation 3rd Order, 2 x 43dBm		dBc			-153			
Front-to-Ba	ck Ratio, Total Power, ± 30°	dB	24.6	22.5	22.4	21.8	22.5	
First Upper Side Lobe Suppression		dB	16.2	15.4	17.7	25.6	16.9	
Cross Polar Discrimination at Boresight		dB	21.6	24.5	18.5	17.1	17.7	
Maximum Effective Power Per Port		Watts	200 W					
Cross Polar Isolation		dB	26					
Interband Isolation		dB			26			

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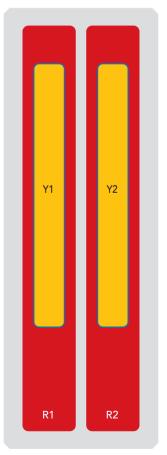
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BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
R1	698-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxxxR1
R 2	698-960 MHz	3-4	(2x) 4.3-10 Female	R2	RFxxxxxxxxxxxR2
Y 1	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxx-Y1
Y 2	1710-2690 MHz	7-8	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxx-Y2



The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

Length			mm (in)	2000 (78.7)	
Width			mm (in)	469 (18.5)	
Depth			mm (in)	205 (8.1)	
Net Weight - Antenna Only		kg (lbs)	30.1 (66.3)		
Wind Load Fro		Front	N (lbf)	555 (125)	
Rated at		Side	N (lbf)	577 (130)	
150 km/h (9	93 mph) Rear		N (lbf)	579 (130)	
Survival Wind Speed		km/h (mph)	200 (124)		
Connector -	Туре			(8x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom	
Radome Color				Light Grey RAL7035	
Radome Material				Fiberglass	
Lightning Protection				Direct Ground	
Shipping Packing Size (Length x Width x Depth)		mm (in)	2275 x 540 x 280 (89.6 x 21.2 x 11.0)		

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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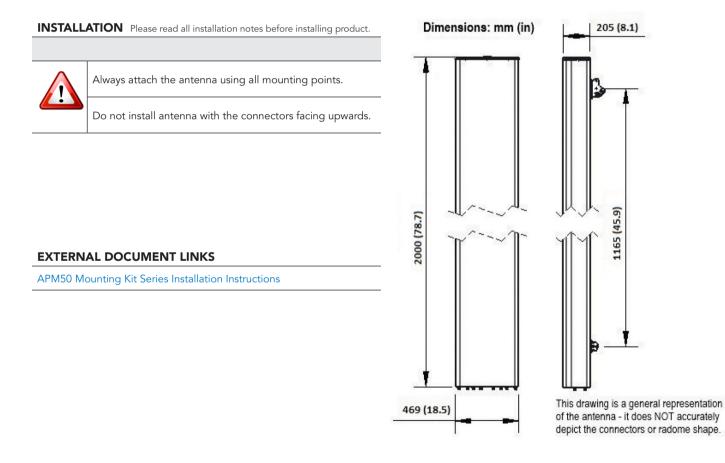
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-110 mm (2.0-4.3 in) Refer to ordering options	APM50-B1	4.5 kg (9.9 lbs)



NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files