

65°

750 mm

EXTERNAL RET

APXVLLL08B_43-C-A20

Features

- 6 ports / 3 cross pol systems in high band (1710-2690 MHz)
- External RET
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	(3x) 1710-2690						
<u>></u>	Array	■ Y1	■ Y2	■ Y3				
VERVIEW	Connector	1-2	3-4	5-6				
OVE		6 PORTS						
5	Polarization	XPOL						
PRODU	Azimuth Beamwidth (avg)	65°						
	Electrical Downtilt	2-14°						
	Dimensions	750 x 320 x 123 mm (29.5 x 12.6 x 4.8 in)						

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
APXVLLL08B_43-C-A20	ACU-A20-J External RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	15.3 kg (33.7 lbs)







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ELECTRICAL SPECIFICATIONS

Amphenol ANTENNA SOLUTIONS

V

Frequency Range		MHz		1710	-2690			
		MHz	1710-1880	1920-2170	2300-2400	2500-2690		
Polarizatio	n			<u>.</u>	15°			
<u> </u>	Over all Tilts	dBi	11 ± 1	11.8 ± 0.5	11.8 ± 0.5	12.2 ± 1		
Gain	Max Gain	dBi	12	12.3	12.3	13.2		
Azimuth Be	eamwidth (3 dB)	degrees	69.7° ± 7.3°	67.1° ± 3.4°	64.4° ± 5.5°	57.1° ± 7.4°		
Elevation E	Beamwidth (3 dB)	degrees	31.2° ± 3.2°	25.5° ± 3.6°	21.6° ± 2.7°	19.1° ± 2.7°		
Electrical D	Downtilt	degrees		2-	14°			
Impedance	9	Ohms	50Ω					
VSWR (Ret	urn Loss)		1.5:1 (-14 dB)					
	ermodulation for 2x20 W Carriers	dBc	-150					
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	20	20	17.7	17.3		
First Uppe	r Side Lobe Suppression	dB	17	12.5	11.9	10		
Cross Pola	r Discrimination Over Sector	dB	14	12.4	11	8.5		
	r Discrimination (XPD) ical Boresight (0°)	dB	21.3	19	16.7	18		
Maximum	Effective Power Per Port	Watts	250 W					
Cross Pola	r Isolation	dB	26					
Interband I	Isolation	dB	26					

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

_	
	Y2

Frequency Range		MHz		1710	-2690		
		MHz	1710-1880	1920-2170	2300-2400	2500-2690	
Polarizatio	on			±4	45°		
	Over all Tilts	dBi	10.3 ± 0.9	11.4 ± 0.8	11.4 ± 0.5	12 ± 1	
Gain	Max Gain	dBi	11.2	12.2	11.9	13	
Azimuth B	Beamwidth (3 dB)	degrees	75.1° ± 6°	67.8° ± 6.8°	66.1° ± 4°	58.1° ± 6.8°	
Elevation I	Beamwidth (3 dB)	degrees	30.1° ± 3°	26.1° ± 2.8°	21.9° ± 1.9°	19.4° ± 1.5°	
Electrical [Downtilt	degrees		2-	14°		
Impedance	ce	Ohms	50Ω				
VSWR (Ret	turn Loss)		1.5:1 (-14 dB)				
Passive Intermodulation 3rd Order for 2x20 W Carriers dBc			-150				
Front-to-B	Back Ratio, Total Power, ± 30°	dB	18.8	20	17.9	16	
First Uppe	er Side Lobe Suppression	dB	17.5	12.6	14.7	9.5	
Cross Pola	ar Discrimination Over Sector	dB	9.4	7	9	9.8	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	20.5	20	21.7	19	
Maximum	Effective Power Per Port	Watts	250 W				
Cross Pola	ar Isolation	dB	26				
Interband	Isolation	dB	26				

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

V/2

Frequency Range		MHz		1710	-2690		
		MHz	1710-1880	1920-2170	2300-2400	2500-2690	
Polarization	า			±4	45°		
<i>C</i> :	Over all Tilts	dBi	10.9 ± 0.5	11.3 ± 0.5	11.6 ± 0.8	11.9 ± 1	
Gain	Max Gain	dBi	11.4	11.8	12.4	12.9	
Azimuth Be	eamwidth (3 dB)	degrees	66.4° ± 5.6°	67.4° ± 4.2°	66.6° ± 4.8°	58.5° ± 4.5°	
Elevation E	Beamwidth (3 dB)	degrees	29.8° ± 2°	26.4° ± 3.6°	22.1° ± 3.4°	19.7° ± 2°	
Electrical D	Powntilt	degrees		2-	14°		
Impedance)	Ohms	50Ω				
VSWR (Ret	urn Loss)		1.5:1 (-14 dB)				
Passive Intermodulation 3rd Order for 2x20 W Carriers dBc			-150				
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	18.8	19.1	17	17	
First Upper	r Side Lobe Suppression	dB	17	13.5	13	10	
Cross Pola	r Discrimination Over Sector	dB	13	11.6	7.7	9.7	
	r Discrimination (XPD) ical Boresight (0°)	dB	19	20.9	17.4	17	
Maximum Effective Power Per Port Watts			250 W				
Cross Polar Isolation dB			26				
Interband I	Isolation	dB	26				

Specifications follow BASTA guidelines.



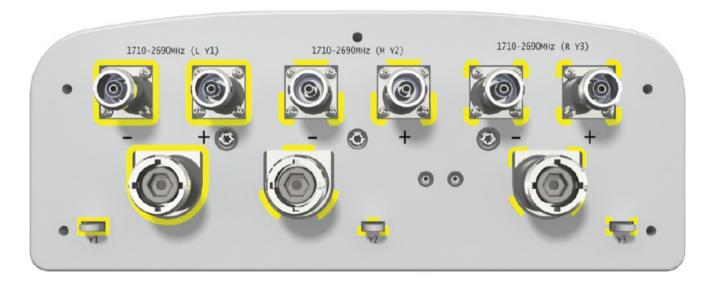
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EXTERNAL RET

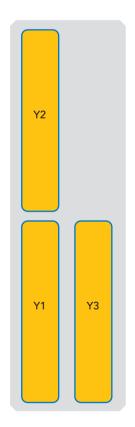
APXVLLL08B_43-C-A20

BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
■ Y1	1710-2690 MHz	1-2	(2x) 4.3-10 Female
■ Y2	1710-2690 MHz	3-4	(2x) 4.3-10 Female
■ Y3	1710-2690 MHz	5-6	(2x) 4.3-10 Female



The illustration is not shown to scale.

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MECHANICAL SPECIFICATIONS

Length			750 (29.5)	
Width			320 (12.6)	
Depth			123 (4.8)	
Net Weight - Antenna Only		kg (lbs)	8.1 (17.9)	
Front Side Rear		N (lbf)	415 (93)	
		N (lbf)	141 (32)	
		N (lbf)	451 (101)	
Survival Wind Speed / Rated Wind Speed		km/h (mph)	200 (150)	
ре			(6x) 4.3-10 Female at Bottom	
r			Light Grey RAL7035	
Radome Material			Fiberglass	
Lightning Protection			Direct Ground	
Packing Size (Le	ength x Width x Depth)	mm (in)	1000 x 445 x 245 (39.4 x 17.5 x 9.6)	
Shipping Weight		kg (lbs)	15.3 (33.7)	
	mph) Speed / Rated pe rial ection Packing Size (Le	Front Side Rear Speed / Rated Wind Speed / Rated Wind Speed Speed / Rated Wind Speed / Rated Wind Speed Speed / Rated Wind Speed / Ra	Front N (lbf)	

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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(3x) 1710-2690 MHz

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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) Shipped with antenna	APM50-B1	4.5 kg (9.9 lbs)

INSTALLATION Please read all installation notes before installing product.

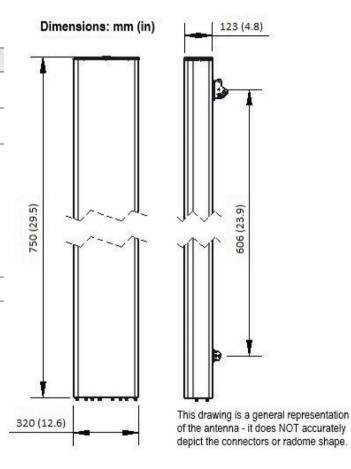


Always attach the antenna using all mounting points.

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

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