

4-Port Panel Antenna

(2x) 1710-2690 MHz

65° 845 mm INTEGRATED RET

APXVLL09B_43-C-I20

Features

- 4 ports / 2 cross pol systems in high band (1710-2690 MHz)
- Supporting 4x4 MIMO
- Integrated and field replaceable SRET
- ACU HW Version: 2.02
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	(2x) 1710-2690					
JCT OVERVIEW	Array	Y 1	¥2				
		1-2	3-4				
	Connector	4 PORTS					
	Polarization	XPOL					
PRODUCT	Azimuth Beamwidth (avg)	65°					
₫.	Electrical Downtilt	2-12°					
	Dimensions	845 x 320 x 123 mm (33.3 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
APXVLL09B_43-C-120	ACU-I20-B2 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	16.5 kg (36.4 lbs)





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ELECTRICAL SPECIFICATIONS

ELECTRI	CAL SPECIFICATIONS				<mark> </mark>			
Frequency	y Range	MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	on				±45°			
Call	Over all Tilts	dBi	15 ± 0.1	15 ± 0.1	15 ± 0.1	15 ± 0.1	15.6 ± 0.5	
Gain	Max Gain	dBi	15.1	15.1	15.1	15.1	16.1	
Azimuth B	Beamwidth (3 dB)	degrees	66.8° ± 2.5°	68.2° ± 3°	69.4° ± 2.5°	67° ± 2.5°	60° ± 4°	
Elevation	Beamwidth (3 dB)	degrees	13.2° ± 0.5°	12.5° ± 0.5°	11.7° ± 1°	10.1° ± 0.5°	9.3° ± 0.5°	
Electrical Downtilt		degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
Passive Int	termodulation	dBc	-150 (3rd Order for 2x20 W Carriers)					
Front-to-B	Back Ratio, Total Power, ± 30°	dB	24	24	23	23	23	
First Uppe	er Side Lobe Suppression	dB	19	19	18	16.5	15	
Cross-Pol	Over Sector	dB	14	14	13	12	12.4	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	14	16	17	21	23	
Maximum Effective Power Per Port V		Watts	250 W					
Cross Polar Isolation		dB	26					
Interband Isolation		dB	26					

Specifications follow BASTA guidelines.

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Frequency	r Range	MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	'n				±45°			
Gain	Over all Tilts	dBi	15 ± 0.1	15 ± 0.1	15 ± 0.1	15.3 ± 0.5	15.6 ± 0.5	
Gain	Max Gain	dBi	15.1	15.1	15.1	15.8	16.1	
Azimuth B	eamwidth (3 dB)	degrees	67° ± 3.5°	69.1° ± 3.6°	70.1° ± 2°	67.1° ± 2.4°	60.9° ± 4°	
Elevation I	Beamwidth (3 dB)	degrees	13.2° ± 0.5°	12.4° ± 0.5°	11.6° ± 1°	10.1° ± 0.5°	9.3° ± 0.5°	
Electrical Downtilt		degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
Passive Int	termodulation	dBc	-150 (3rd Order for 2x20 W Carriers)					
Front-to-B	ack Ratio, Total Power, ± 30°	dB	24	24.9	24	23.2	22	
First Uppe	er Side Lobe Suppression	dB	16	16.9	16	15	13	
Cross-Pol	Over Sector	dB	14	12.3	12	11.6	12	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	15	17	18	22.2	23.8	
Maximum Effective Power Per Port W		Watts	250 W					
Cross Polar Isolation		dB	26					
Interband	Isolation	dB			26			

Specifications follow BASTA guidelines.



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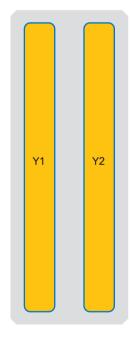
APXVLL09B_43-C-I20

BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
Y 1	1710-2690 MHz	1-2	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxxx-Y1
<mark> </mark> Y2	1710-2690 MHz	3-4	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxx-Y2



The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

Length			845 (33.3)		
Width			320 (12.6)		
Depth			123 (4.8)		
Net Weight - Antenna Only			9.4 (20.7)		
Net Weight - Mounting Hardware Only		kg (lbs)	4.5 (9.9)		
Wind Load Front		N (lbf)	224 (50)		
	Side		144 (32)		
3 mph) Rear		N (lbf)	260 (58)		
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		
lor			Light Grey		
Radome Material			Fiberglass		
Lightning Protection			DC Ground		
Packing Size (Length x Width x Depth)		mm (in)	1120 x 415 x 215 (44.1 x 16.3 x 8.5)		
Shipping Weight		kg (lbs)	16.5 (36.4)		
	- Mounting Hard 3 mph) nd Speed / Rated Fype lor nterial rotection Packing Size (La	- Mounting Hardware Only Front Side 3 mph) Rear ad Speed / Rated Wind Speed Fype lor reterial rotection Packing Size (Length x Width x Depth)	- Mounting Hardware Only kg (lbs) Front N (lbf) Side N (lbf) 3 mph) Rear N (lbf) ad Speed / Rated Wind Speed km/h (mph) fype lor terial packing Size (Length x Width x Depth) mm (in)		

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



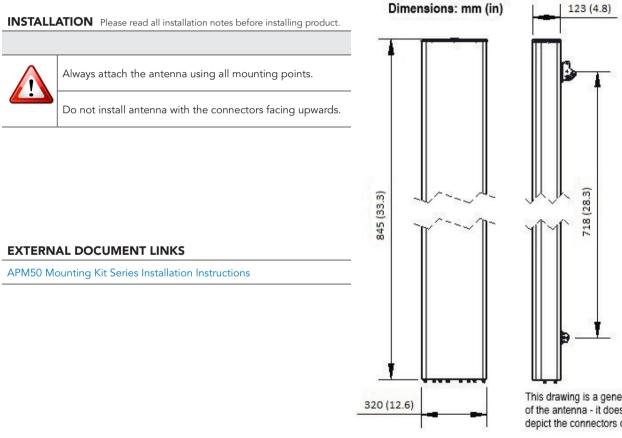
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-110 mm (2.0-4.3 in) Shipped with antenna	APM50-B1	4.5 kg (9.9 lbs)



This drawing is a general representation of the antenna - it does NOT accurately depict the connectors or radome shape.

NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files