

### 4-Port Panel Antenna

(2x) 1710-2690 MHz

33° 750 mm INTEGRATED RET

## APXV3LL08B\_43-C-I20

### Features

- Single beam antenna, 33°
- 4 ports / 2 cross pol systems in high band (1710-2690 MHz)
- Integrated and field replaceable SRET
- ACU HW Version: 2.02
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	(2x) 171	0-2690				
PRODUCT OVERVIEW	Array	<b>Y</b> 1	<mark> </mark>				
		1-2	3-4				
	Connector	4 PORTS					
	Polarization	XPOL					
	Azimuth Beamwidth (avg)	33°					
	Electrical Downtilt	2-11°					
	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
APXV3LL08B_43-C-120	ACU-I20-B2 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	16.4 kg (36.2 lbs)





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Y1

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### **ELECTRICAL SPECIFICATIONS**

			<b>–</b> 11					
Frequency Range		MHz	1710-2690					
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	n				±45°			
	Over all Tilts	dBi	14.4 ± 0.3	14.8 ± 0.2	15 ± 0.3	15.5 ± 0.5	15.6 ± 0.5	
Gain	Max Gain	dBi	14.7	15	15.3	16	16.1	
Azimuth Beamwidth (3 dB)		degrees	35.5° ± 1.5°	33.6° ± 0.8°	32° ± 1.9°	28° ± 0.7°	26.9° ± 0.9°	
Elevation E	Beamwidth (3 dB)	degrees	28.3° ± 1.6°	26.5° ± 1.5°	24.6° ± 2.3°	21° ± 1.2°	18.5° ± 1.3°	
Electrical Downtilt		degrees	2-11°					
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
Passive Intermodulation		dBc	-150 (3rd Order for 2x20 W Carriers)					
Front-to-B	ack Ratio, Total Power, ± 30°	dB	24.4	23.6	21.9	20.5	19.4	
First Uppe	r Side Lobe	dB	14.9	14.3	12.9	12.4	11.2	
Cross-Pol (	Over Sector	dB	10.9	8.3	7.8	3.5	3.2	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	15.8	17	17.4	16.6	21.3	
Maximum Effective Power Per Port		Watts	250 W					
Cross Polar Isolation		dB	26					
Interband Isolation		dB	26					

### **ELECTRICAL SPECIFICATIONS**

ELECTRI	CAL SPECIFICATIONS				<mark> </mark>			
Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	n				±45°	•	•	
<u> </u>	Over all Tilts	dBi	14.5 ± 0.3	14.9 ± 0.3	15.1 ± 0.4	15.8 ± 0.3	15.5 ± 0.7	
Gain	Max Gain	dBi	14.8	15.2	15.5	16.1	16.2	
Azimuth B	eamwidth (3 dB)	degrees	35.1° ± 1.2°	33.3° ± 1°	31.5° ± 2.1°	28° ± 0.7°	27.3° ± 1.1°	
Elevation	Elevation Beamwidth (3 dB)		28.7° ± 1°	27° ± 1°	25.4° ± 1.9°	20.8° ± 1.1°	19.5° ± 1.6°	
Electrical Downtilt		degrees	2-11°					
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	24.5	22.2	21.5	20.9	20.2	
First Uppe	er Side Lobe	dB	18.9	16.9	16.6	17.1	15.2	
Cross-Pol	Over Sector	dB	10.3	9.2	8.9	7	6.3	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	19.5	20.6	21.2	22.1	22.2	
Maximum Effective Power Per Port		Watts	250 W					
Cross Polar Isolation		dB	26					
Interband Isolation		dB	26					



### 4-Port Panel Antenna

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### BOTTOM VIEW - LABELING



### ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID	
<b>Y</b> 1	1710-2690 MHz	1-2	(2x) 4.3-10 Female	V/1		
<mark> </mark> Y2	1710-2690 MHz	3-4	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxxY1	



The illustration is not shown to scale.



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#### **MECHANICAL SPECIFICATIONS**

Length			mm (in)	750 (29.5)		
Width			mm (in)	320 (12.6)		
Depth			mm (in)	123 (4.8)		
Net Weight - Antenna Only			kg (lbs)	8.3 (18.3)		
Net Weight	: - Mounting Har	dware Only	kg (lbs)	4.5 (9.9)		
Wind Load	Wind Load Front		N (lbf)	295 (66)		
Rated at		Side	N (lbf)	97 (22)		
150 km/h (9	(93 mph) Rear		N (lbf)	311 (70)		
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		
Radome Co	olor			Light Grey RAL7035		
Radome Material				Fiberglass		
Lightning Protection			Direct Ground			
Chinair -	Packing Size (Length x Width x Depth)		mm (in)	1025 x 415 x 215 (40.4 x 16.3 x 8.5)		
Shipping	Shipping Weight		kg (lbs)	16.4 (36.2)		

### **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	



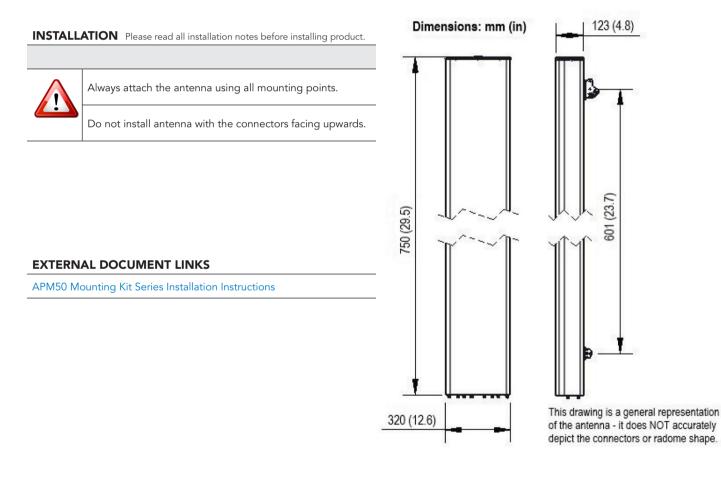
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

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