

4-Port Panel Antenna

(2x) 1710-2690 MHz

65° 1495 mm INTEGRATED RET

APXVLL15B_43-C-I20

Features

- 4 ports / 2 cross pol system 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) 1710-2690						
PRODUCT OVERVIEW	Array	Y 1	Y 2					
	Constant	1-2	3-4					
	Connector	4 PORTS						
	Polarization	XPOL						
	Azimuth Beamwidth (avg)	65°						
	Electrical Downtilt	2-12°						
	Dimensions	1495 x 320 x 123 mm (58.9 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
APXVLL15B_43-C-I20	ACU-120-B2 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	22.7 kg (50 lbs)





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Y1

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ELECTRICAL SPECIFICATIONS

		_ ···						
Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	n				±45°			
Gain	Over all Tilts	dBi	16.9 ± 0.4	17.3 ± 0.3	17.5 ± 0.3	17.7 ± 0.4	18.0 ± 0.5	
	Max Gain	dBi	17.3	17.6	17.8	18.1	18.5	
Azimuth B	eamwidth (3 dB)	degrees	69.2° ± 3.5°	70.5° ± 4.1°	70.6° ± 2.7°	67.7° ± 1.9°	61.9° ± 4.3°	
Elevation B	Beamwidth (3 dB)	degrees	$6.8^{\circ} \pm 0.4^{\circ}$	6.2° ± 0.3°	5.9° ± 0.4°	5.3° ± 0.2°	4.8° ± 0.3°	
Electrical Downtilt		degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-150					
Front-to-B	ack Ratio, Total Power, ± 30°	dB	22.4	22.8	23.1	23.3	21.4	
First Uppe	r Side Lobe Suppression	dB	18.6	18.7	18.7	18.2	15.9	
Cross Pola	ar Discrimination Over Sector	dB	9.3	11.1	11.9	12.4	9.8	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	16.5	18.5	19.1	22.1	24.0	
Maximum Effective Power Per Port		Watts			250 W			
Cross Pola	ar Isolation	dB	28	28	28	28	28	
Interband Isolation		dB	28	28	28	28	28	

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

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Frequency	Range	MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization	n		±45°					
Gain	Over all Tilts	dBi	16.9 ± 0.4	17.3 ± 0.3	17.5 ± 0.3	17.7 ± 0.4	18.1 ± 0.4	
Gain	Max Gain	dBi	17.3	17.6	17.8	18.1	18.5	
Azimuth Be	eamwidth (3 dB)	degrees	69.1° ± 2.8°	70.2° ± 3.7°	70.4° ± 2.5°	67.9° ± 1.6°	61.3° ± 4.1°	
Elevation B	Beamwidth (3 dB)	degrees	$6.8^{\circ} \pm 0.4^{\circ}$	6.2° ± 0.3°	5.9° ± 0.4°	5.2° ± 0.2°	4.8° ± 0.3°	
Electrical D	Downtilt	degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Return 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	22.9	22.6	22.7	23.0	20.2	
First Upper	r Side Lobe Suppression	dB	18.4	18.8	19.0	19.4	17.1	
Cross Polar	r Discrimination Over Sector	dB	10.5	11.2	12.1	12.0	10.5	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	15.6	17.0	17.6	19.7	22.2	
Maximum Effective Power Per Port		Watts			250 W			
Cross Polar Isolation		dB	28	28	28	28	28	
Interband I	solation	dB	28	28	28	28	28	

Specifications follow BASTA guidelines.



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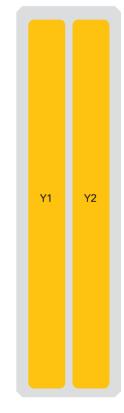
APXVLL15B_43-C-I20

BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
<mark> </mark> Y1	1710-2690 MHz	1-2	(2x) 4.3-10 Female	Y1 RFxxxxxxxxxxxx2Y1	
 Y 2	1710-2690 MHz	3-4	(2x) 4.3-10 Female	TI	TTXXXXXXXXXXXX-211



The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

Length			mm (in)	1495 (58.9)		
Width			mm (in)	320 (12.6)		
Depth			mm (in)	123 (4.8)		
Net Weight - Antenna Only			kg (lbs)	15.3 (33.7)		
Net Weight	: - Mounting Hard	dware Only	kg (lbs)	4.5 (9.9)		
Wind Load	Wind Load Front		N (lbf)	588 (132)		
Rated at	Side		N (lbf)	226 (51)		
150 km/h (9	93 mph)	Rear	N (lbf)	700 (157)		
Survival Wir	Survival Wind Speed / Rated Wind Speed		km/h (mph)	200 (150)		
Connector -	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			
Chinaina	Packing Size (Length x Width x Depth)		mm (in)	1766 x 445 x 210 (69.5 x 17.5 x 8.3)		
ənipping	Shipping Weight		kg (lbs)	22.7 (50)		
Shipping Packing Size (Length x Width x Depth)		mm (in)	1766 x 445 x 210 (69.5 x 17.5 x 8.3)			

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



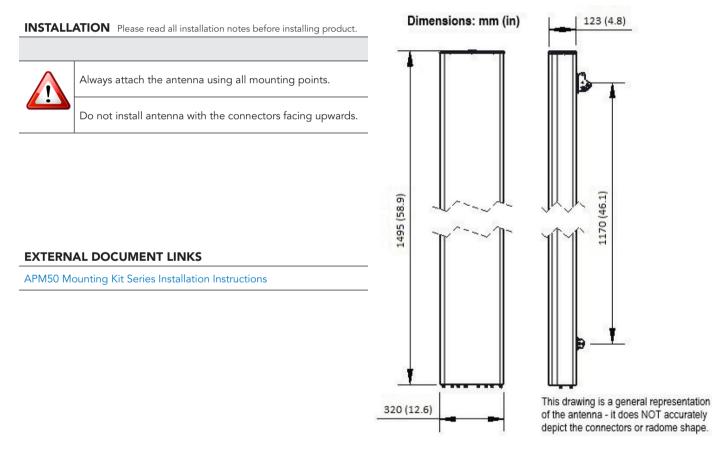
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

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