

6-Port Panel Antenna

(3x) 1710-2690 MHz

65° 1485 mm INTEGRATED RET

APXVLLL15B_43-C-I20

Features

- 6 ports / 3 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)	(3x) 1710-2690						
≥	Array	<mark> </mark>	<mark> </mark>	Y 3				
RVIE	Connector	1-2	3-4	5-6				
OVERVIEW		6 PORTS						
J	Polarization	XPOL						
PRODU	Azimuth Beamwidth (avg)	65°						
PR	Electrical Downtilt	2-12°						
	Dimensions	1485 x 428 x 145 mm (58.5 x 16.9 x 5.7 in)						

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
APXVLLL15B_43-C-120	ACU-120-B3 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	30.2 kg (66.6 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°		·	
<u> </u>	Over all Tilts	dBi	17.1 ± 0.5	17.5 ± 0.3	18.1 ± 0.6	18.2 ± 0.5	17.7 ± 0.9	
Gain	Max Gain	dBi	17.6	17.8	18.7	18.7	18.6	
Azimuth B	Beamwidth (3 dB)	degrees	64.2° ± 3.7°	63.5° ± 5.3°	65.4° ± 5.0°	$64.6^{\circ} \pm 4.5^{\circ}$	$60.8^{\circ} \pm 6.3^{\circ}$	
Elevation Beamwidth (3 dB)		degrees	6.9° ± 0.5°	6.4° ± 0.4°	5.8° ± 0.5°	5.2° ± 0.4°	$4.9^{\circ} \pm 0.4^{\circ}$	
Electrical [Downtilt	degrees			2-12°		·	
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
	termodulation for 2x20 W Carriers	dBc	-150					
Front-to-B	Back Ratio, Total Power, ± 30°	dB	24.3	26.1	25.6	21.6	19.9	
First Uppe	er Side Lobe Suppression	dB	19.4	19.4	19.0	18.2	14.9	
Cross Pola	ar Discrimination Over Sector	dB	17.0	15.7	13.5	12.6	13.6	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	18.7	21.3	20.7	17.8	22.6	
Maximum Effective Power Per Port		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°			
<u> </u>	Over all Tilts	dBi	17.3 ± 0.5	17.7 ± 0.3	18.3 ± 0.5	18.1 ± 0.5	18.2 ± 0.7	
Gain	Max Gain	dBi	17.8	18.0	18.8	18.6	18.9	
Azimuth B	eamwidth (3 dB)	degrees	60.2° ± 5.0°	56.3° ± 2.5°	58.6° ± 4.9°	66.8° ± 2.9°	58.7° ± 5.2°	
Elevation Beamwidth (3 dB)		degrees	6.9° ± 0.5°	6.4° ± 0.3°	5.9° ± 0.5°	5.3° ± 0.4°	4.8° ± 0.3°	
Electrical [Downtilt	degrees			2-12°			
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
	ermodulation for 2x20 W Carriers	dBc			-150			
Front-to-B	ack Ratio, Total Power, ± 30°	dB	25.5	25.9	25.0	22.2	19.8	
First Uppe	r Side Lobe Suppression	dB	20.5	20.0	18.1	19.5	15.2	
Cross Pola	r Discrimination Over Sector	dB	15.5	13.9	12.6	12.3	11.4	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	17.1	18.9	20.6	19.5	21.1	
Maximum Effective Power Per Port		Watts	250 W					
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Cali	Over all Tilts	dBi	17.1 ± 0.5	17.5 ± 0.3	18.2 ± 0.6	18.1 ± 0.6	17.7 ± 0.9	
Gain	Max Gain	dBi	17.6	17.8	18.8	18.7	18.6	
Azimuth B	eamwidth (3 dB)	degrees	$64.2^{\circ} \pm 4.2^{\circ}$	63.5° ± 5.3°	65.4° ± 5.1°	66.2° ± 3.3°	61.4° ± 5.6°	
Elevation Beamwidth (3 dB)		degrees	6.9° ± 0.5°	6.4° ± 0.3°	5.9° ± 0.5°	5.3° ± 0.3°	4.9° ± 0.4°	
Electrical Downtilt		degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
	termodulation for 2x20 W Carriers	dBc	-150					
Front-to-B	ack Ratio, Total Power, ± 30°	dB	24.4	24.7	25.5	22.5	21.5	
First Uppe	r Side Lobe Suppression	dB	19.8	19.4	17.9	17.2	14.3	
Cross Pola	ar Discrimination Over Sector	dB	14.5	13.7	12.6	11.3	12.2	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	18.3	21.2	22.7	21.7	20.9	
Maximum Effective Power Per Port		Watts	250 W					
Cross Pola	ar Isolation	dB	26					
Interband	Isolation	dB	26					

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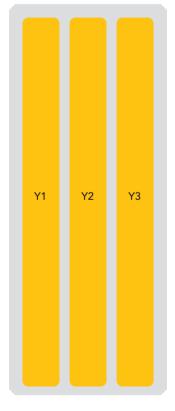
APXVLLL15B_43-C-I20

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	RFxxxxxxxxxxx-Y1
<mark> </mark> Y2	1710-2690 MHz	3-4	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxx-Y2
Y 3	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y3	RFxxxxxxxxxx-Y3



The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

Length			mm (in)	1485 (58.5)	
Width			mm (in)	428 (16.9)	
Depth			mm (in)	145 (5.7)	
Net Weight	: - Antenna Only		kg (lbs)	21 (46.3)	
Net Weight	: - Mounting Har	dware Only	kg (lbs)	4.5 (9.9)	
Wind Load Front		Front	N (lbf)	783 (176)	
Rated at		Side	N (lbf)	265 (60)	
150 km/h (9	(93 mph) Rear		N (lbf)	822 (185)	
Survival Wir	nd Speed / Rated	d Wind Speed	km/h (mph)	200 (150)	
Connector -	Туре			(6x) 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		
China in a	Packing Size (Length x Width x Depth)		mm (in)	1755 x 523 x 240 (69.1 x 20.6 x 9.4)	
Shipping	Shipping Weight		kg (lbs)	30.2 (66.6)	
	1				

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



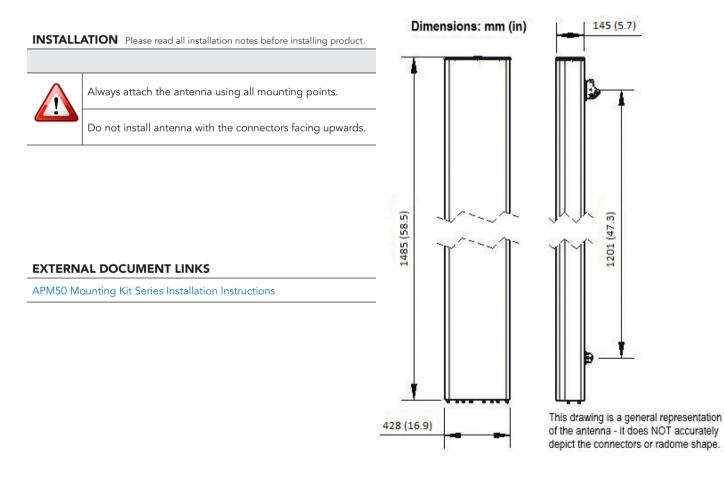
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

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