

(2x) 1695-2170 | (2x) 2490-2690 MHz

65°

1398 mm INTEGRATED RET

APXVRRMM15H_43-C-I20

Features

- 4 ports / 2 cross pol systems in high band (1695-2170 MHz)
- 4 ports / 2 cross pol systems in high band (2490-2690 MHz)
- Integrated and field replaceable SRET
- ACU HW version -HRLS200608H1.00
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	(2x) 169	95-2170	(2x) 2490-2690			
OVERVIEW	Array	B 1	B 2	Y 1	Y 2		
	Constant	1-2	3-4	5-6	7-8		
	Connector	8 PORTS					
с С	Polarization	XPOL					
PRODU	Azimuth Beamwidth (avg)	65°					
PR	Electrical Downtilt	2-*	12°	2-12°			
	Dimensions		1398 x 278 x 168 mm	ר (55.0 x 10.9 x 6.6 in)			

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
APXVRRMM15H_43-C-I20	ACU-I20-H12I Internal RET Included	APM50-H1 Beam Tilt Kit Included	50-125 mm (2.0-4.9 in)	22.1 kg (48.7 lbs)





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B1

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ELECTRICAL SPECIFICATIONS

Frequency Range		MHz		1695-2170			
		MHz	1695-1880 1850-1990 1920-				
Polarizatio	n			±45°			
<u> </u>	Over all Tilts	dBi	16.4 ± 0.4	17.0 ± 0.3	17.0 ± 0.3		
Gain	Max Gain	dBi	16.8	17.3	17.3		
Azimuth B	eamwidth (3 dB)	degrees	67.0° ± 2.1°	64.8° ± 2.3°	64.2° ± 2.0°		
Elevation E	Beamwidth (3 dB)	degrees	7.2° ± 0.4°	6.6° ± 0.3°	6.3° ± 0.4°		
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	-153				
Front-to-B	ack Ratio, Total Power, ± 30°	dB	24.6	27.3	27.5		
- irst Uppe	r Side Lobe Suppression	dB	18.4	18.5	18.6		
Cross Pola	r Discrimination Over Sector	dB	10.7	12.3	13.0		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	23.9 25.1		25.2		
Maximum Effective Power Per Port		Watts	200 W				
Cross Pola	r Isolation	dB	28				
Interband	Isolation	dB		28			

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

ELECTRI	CAL SPECIFICATIONS			B 2			
Frequency	y Range	MHz		1695-2170			
		MHz	1695-1880	1920-2170			
Polarizatio	on			±45°			
<u> </u>	Over all Tilts	dBi	16.4 ± 0.5	16.9 ± 0.2	16.9 ± 0.3		
Gain	Max Gain	dBi	16.9	17.1	17.2		
Azimuth B	Beamwidth (3 dB)	degrees	66.6° ± 2.3°	64.7° ± 1.7°	64.3° ± 2.0°		
Elevation	Beamwidth (3 dB)	degrees	7.1° ± 0.4°	6.6° ± 0.3°	6.3° ± 0.5°		
Electrical [Downtilt	degrees		2-12°	·		
Impedance		Ohms	50Ω				
VSWR (Return Loss)			1.5:1 (-14 dB)				
	termodulation for 2x20 W Carriers	dBc	-153				
Front-to-B	Back Ratio, Total Power, ± 30°	dB	24.1	26.4	26.4		
First Uppe	er Side Lobe Suppression	dB	17.9	16.9	17.7		
Cross Pola	ar Discrimination Over Sector	dB	11.2	13.1	13.8		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	26.0 28.7 24		29.3		
Maximum Effective Power Per Port W		Watts	200 W				
Cross Pola	ar Isolation	dB		28			
Interband	Isolation	dB		28			

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ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS			<mark> </mark>
Frequency I	Range	MHz	2490-2690
Polarization	1		±45°
Call	Over all Tilts	dBi	17.2 ± 0.5
Gain	Max Gain	dBi	17.7
Azimuth Be	amwidth (3 dB)	degrees	58.8° ± 2.7°
Elevation B	eamwidth (3 dB)	degrees	5.1° ± 0.2°
Electrical D	owntilt	degrees	2-12°
Impedance		Ohms	50Ω
VSWR (Return Loss)			1.5:1 (-14 dB)
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153
Front-to-Ba	ck Ratio, Total Power, ± 30°	dB	24
First Upper	Side Lobe Suppression	dB	16.3
Cross Polar	Discrimination Over Sector	dB	9.9
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	24.7
Maximum Effective Power Per Port		Watts	200 W
Cross Polar Isolation		dB	28
Interband Is	solation	dB	28

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ELECTRICAL SPECIFICATIONS			<mark> </mark>
Frequency	Frequency Range		2490-2690
Polarizatio	n		±45°
Cain	Over all Tilts	dBi	16.9 ± 0.5
Gain	Max Gain	dBi	17.4
Azimuth B	eamwidth (3 dB)	degrees	59.2° ± 3.2°
Elevation E	Beamwidth (3 dB)	degrees	5.1° ± 0.2°
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	-153
Front-to-B	ack Ratio, Total Power, ± 30°	dB	22.3
First Uppe	r Side Lobe Suppression	dB	18
Cross Pola	r Discrimination Over Sector	dB	9.1
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	25
Maximum Effective Power Per Port		Watts	200 W
Cross Polar Isolation		dB	28
Interband	Isolation	dB	28

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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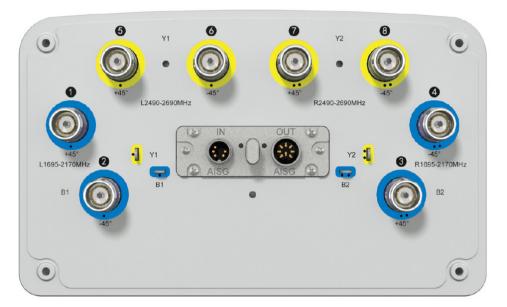


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65° 1398 mm INTEGRATED RET

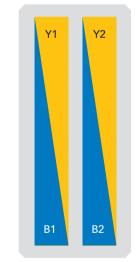
APXVRRMM15H_43-C-I20

BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
B 1	1695-2170 MHz	1-2	(2x) 4.3-10 Female	B1	RFxxxxxxxxxxB1
B 2	1695-2170 MHz	3-4	(2x) 4.3-10 Female	B2	RFxxxxxxxxxx-B2
Y 1	2490-2690 MHz	5-6	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxx-Y1
Y 2	2490-2690 MHz	7-8	(2x) 4.3-10 Female	Y2	RFxxxxxxxxx-Y2



The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

Length			mm (in)	1398 (55.0)	
Width			mm (in)	278 (10.9)	
Depth			mm (in)	168 (6.6)	
Net Weight	- Antenna Only		kg (lbs)	16 (35.3)	
Net Weight	- Mounting Hard	dware Only	kg (lbs)	4 (8.8)	
Wind Load Front		N (lbf)	360 (81)		
Rated at	Side		N (lbf)	280 (63)	
150 km/h (9	(93 mph) Rear		N (lbf)	400 (90)	
Survival Wind Speed / Rated Wind Speed		km/h (mph)	200 (150)		
Connector -	Гуре			(8x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom	
Radome Co	lor			Light Grey RAL7035	
Radome Ma	aterial			UPVC	
Lightning Protection			Direct Ground		
Chinaina	Packing Size (Length x Width x Depth)		mm (in)	1578 x 373 x 278 (62.1 x 14.7 x 10.9)	
Shipping	Shipping Weight		kg (lbs)	22.1 (48.7)	
	Snipping weight				

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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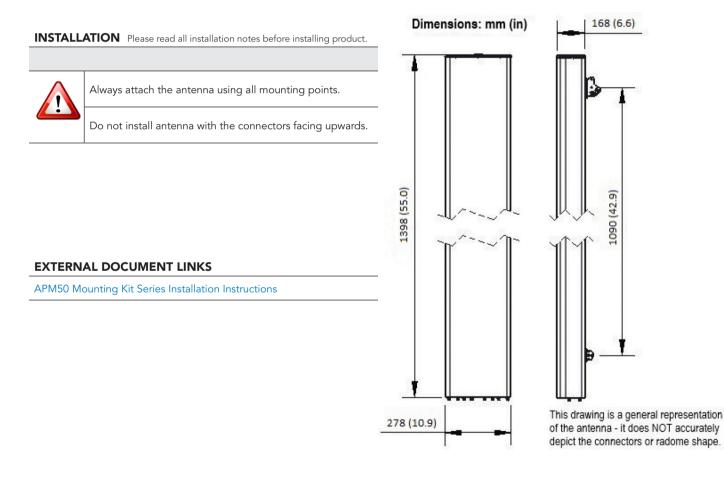
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) Shipped with antenna	АРМ50-Н1	4.0 kg (8.8 lbs)



NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files