

(2x) 1695-2690 MHz

65° 1378 mm INTEGRATED RET

APXVLL14H_43-A-I20

Features

- 4 ports / 2 cross pol systems in high band (1695-2690 MHz)
- Supporting 4x4 MIMO
- Integrated and field replaceable SRET
- ACU HW version -HRLS200608H1.00
- Optional with Direct Pipe No Tilt mounting hardware (Model name Suffix -A-I20)
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	(2x) 1695-2690						
>	Array	Y 1	Y2					
RVIE	Constant	1-2	3-4					
OVERVIEW	Connector	4 PC	DRTS					
-	Polarization	XPOL						
PRODUCT	Azimuth Beamwidth (avg)	65°						
PR	Electrical Downtilt	0-10°						
	Dimensions	1378 x 258 x 88 mm (54.3 x 10.2 x 3.5 in)						

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT	MOUNTING HARDWARE WEIGHT
APXVLL14H_43-C-I20	ACU-I20-H12I Internal RET Included	APM50-H1 Beam Tilt Kit Included	50-125 mm (2.0-4.9 in)	16.0 kg (35.3 lbs)	4.0 kg (8.8 lbs)
APXVLL14H_43-A-I20	ACU-I20-H12I Internal RET Included	APM50-H1N Direct Pipe No Tilt Mounting Kit Included	50-125 mm (2.0-4.9 in)	15.0 kg (33.1 lbs)	3.0 kg (6.6 lbs)





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ELECTRICAL SPECIFICATIONS

ELECTRI	CAL SPECIFICATIONS				<mark> </mark>			
Frequency	y Range	MHz	1695-2690					
		MHz	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	on				±45°			
	Over all Tilts	dBi	16.7 ± 0.5	17.2 ± 0.5	17.8 ± 0.5	17.9 ± 0.5	18.0 ± 1.0	
Gain	Max Gain	dBi	17.2	17.7	18.3	18.4	19.0	
Azimuth B	Beamwidth (3 dB)	degrees	66.6° ± 2.1°	64.5° ± 1.5°	63.9° ± 2.0°	64.0° ± 2.0°	57.1° ± 2.5°	
Elevation	Beamwidth (3 dB)	degrees	7.1° ± 0.5°	6.8° ± 0.5°	6.2° ± 0.5°	5.5° ± 0.5°	5.1° ± 0.1°	
Electrical [Downtilt	degrees	0-10°					
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	26	28	28	28	29	
First Uppe	er Side Lobe Suppression	dB	20	21	21	19.5	19	
Cross Pola	ar Discrimination Over Sector	dB	11	13	14	9	7	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	26	25.3	24	29	25	
Maximum Effective Power Per Port		Watts	250 W					
Cross Polar Isolation		dB	28					
Interband Isolation		dB	28					

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

ELECTRI	CAL SPECIFICATIONS				<mark> </mark>			
Frequency Range		MHz	1695-2690					
		MHz	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	on			±45°				
Caile	Over all Tilts	dBi	16.8 ± 0.5	17.3 ± 0.5	17.8 ± 0.5	18.0 ± 0.1	17.9 ± 0.5	
Gain	Max Gain	dBi	17.3	17.8	18.3	18.1	18.4	
Azimuth B	Beamwidth (3 dB)	degrees	$66.4^{\circ} \pm 3.0^{\circ}$	64.1° ± 2.0°	63.6° ± 2.0°	63.5° ± 1.5°	57.9° ± 3.0°	
Elevation E	Beamwidth (3 dB)	degrees	7.2° ± 0.5°	6.8° ± 0.5°	6.1° ± 0.5°	5.5° ± 0.5°	5.0° ± 0.1°	
Electrical Downtilt		degrees	0-10°					
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153					
Front-to-B	Back Ratio, Total Power, ± 30°	dB	26	29	29.9	28	27	
First Uppe	er Side Lobe Suppression	dB	20	20.8	20	18.4	18	
Cross Pola	ar Discrimination Over Sector	dB	11	12	15	9.9	8	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	24.5	26	25	27.4	26	
Maximum Effective Power Per Port		Watts	250 W					
Cross Polar Isolation		dB	28					
Interband	Isolation	dB	28					

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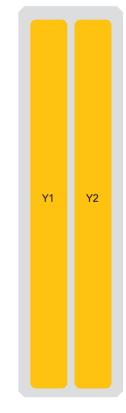
APXVLL14H_43-A-I20

BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
<mark> </mark>	1695-2690 MHz	1-2	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxxx-Y1
Y 2	1695-2690 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			mm (in)	1378 (54.3)		
Width			mm (in)	258 (10.2)		
Depth			mm (in)	88 (3.5)		
Net Weight	- Antenna Only		kg (lbs)	10 (22)		
Wind Load Front		N (lbf)	435 (98)			
Rated at		Side	N (lbf)	112 (25)		
150 km/h (9	93 mph) Rear		N (lbf)	264 (59)		
Survival Wind Speed		km/h (mph)	200 (124)			
Connector 7	Гуре			(4x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bott		
Radome Color				Light Grey RAL7035		
Radome Material				UPVC		
Lightning Protection				Direct Ground		
Shipping Packing Size (Length x Width x Depth)		mm (in)	1558 x 353 x 208 (61.3 x 13.9 x 8.2)			

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



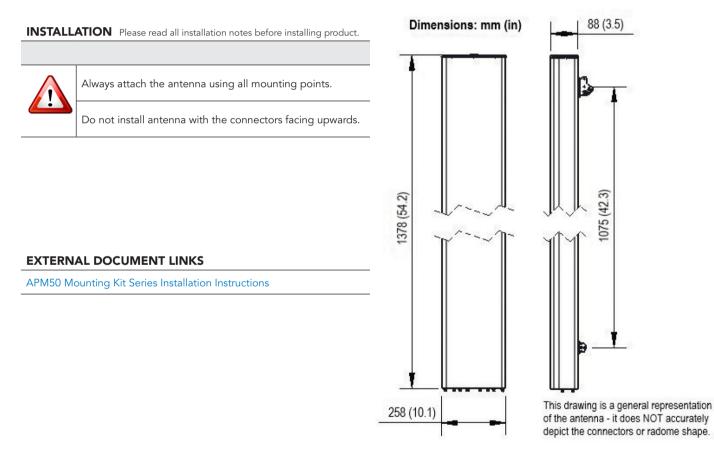
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) Refer to ordering options	APM50-H1	4.0 kg (8.8 lbs)
Direct Pipe No Tilt Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) Refer to ordering options	APM50-H1N	3.0 kg (6.6 lbs)



NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files