

## APXVBLL26H\_43-C-I20

## APXVBLL26H\_43-A-I20

### Features

- 2 ports / 1 cross pol system in low band (690-960 MHz)
- 4 ports / 2 cross pol systems in high band (1695-2690 MHz)
- Supporting 4x4 MIMO in high band
- 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



PRODUCT OVERVIEW	Frequency Range (MHz)	(1x) 690-960	(2x) 1695-2690	
	Array	<div><div></div> R1</div>	<div><div></div> Y1</div>	<div><div></div> Y2</div>
	Connector	1-2	3-4	5-6
		6 PORTS		
	Polarization	XPOL		
	Azimuth Beamwidth (avg)	65°	65°	65°
	Electrical Downtilt	2-12°	2-12°	
	Dimensions	2498 x 378 x 158 mm (98.3 x 14.9 x 6.2 in)		

### ORDERING OPTIONS

Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT	MOUNTING HARDWARE WEIGHT
APXVBLL26H_43-C-I20	ACU-I20-H12I Internal Field Replaceable RET Included	APM50-H1 Beam Tilt Kit Included	50-125 mm (2.0-4.9 in)	34.0 kg (74.9 lbs)	4.0 kg (8.8 lbs)
APXVBLL26H_43-A-I20	ACU-I20-H12I Internal Field Replaceable RET Included	APM50-H1N Direct Pipe No Tilt Mounting Kit Included	50-125 mm (2.0-4.9 in)	33.0 kg (72.7 lbs)	3.0 kg (6.6 lbs)

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### ELECTRICAL SPECIFICATIONS

■ R1

Frequency Range		MHz	690-960		
		MHz	690-806	790-894	880-960
Polarization		---	±45°		
Gain	Over all Tilts	dBi	16.3 ± 0.5	16.8 ± 0.5	17.3 ± 0.5
	Max Gain	dBi	16.8	17.3	17.8
Azimuth Beamwidth (3 dB)		degrees	67.4° ± 1.5°	65.1° ± 2.0°	61.2° ± 1.5°
Elevation Beamwidth (3 dB)		degrees	8.6° ± 0.5°	7.8° ± 0.5°	7.1° ± 0.5°
Electrical Downtilt		degrees	2-12°		
Impedance		Ohms	50Ω		
VSWR (Return Loss)		---	1.5:1 (-14 dB)		
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)		
Front-to-Back Ratio, Total Power, ± 30°		dB	25	24	24
First Upper Side Lobe Suppression		dB	16	17	19.1
Cross Polar Discrimination Over Sector		dB	10	10	9
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	26	27	27
Maximum Effective Power Per Port		Watts	250 W		
Cross Polar Isolation		dB	28		
Interband Isolation		dB	28		

Specifications follow BASTA guidelines.

### ELECTRICAL SPECIFICATIONS

■ Y1

Frequency Range		MHz	1695-2690				
		MHz	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	16.4 ± 0.5	16.6 ± 0.5	16.9 ± 1.0	17.1 ± 0.5	17.3 ± 0.5
	Max Gain	dBi	16.9	17.1	17.9	17.6	17.8
Azimuth Beamwidth (3 dB)		degrees	70.8° ± 6.0°	65.7° ± 6.5°	66.6° ± 5.2°	68.0° ± 2.0°	64.6° ± 5.3°
Elevation Beamwidth (3 dB)		degrees	6.2° ± 0.5°	5.9° ± 0.1°	5.5° ± 0.5°	5.0° ± 0.1°	4.8° ± 0.5°
Electrical Downtilt		degrees	2-12°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)				
Front-to-Back Ratio, Total Power, ± 30°		dB	21.5	24.9	25	25	21
First Upper Side Lobe Suppression		dB	16.7	20	20	21	18.1
Cross Polar Discrimination Over Sector		dB	10	8	9	11.4	5
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	23	23	23	24.1	24
Maximum Effective Power Per Port		Watts	200 W				
Cross Polar Isolation		dB	28				
Interband Isolation		dB	28				

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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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### ELECTRICAL SPECIFICATIONS

■ Y2

Frequency Range		MHz	1695-2690				
		MHz	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	16.5 ± 0.5	16.7 ± 0.5	16.9 ± 1.0	17.3 ± 0.5	17.5 ± 0.5
	Max Gain	dBi	17.0	17.2	17.9	17.8	18.0
Azimuth Beamwidth (3 dB)		degrees	70.5° ± 7.2°	65.7° ± 6.5°	66.1° ± 5.2°	66.0° ± 1.7°	63.4° ± 4.1°
Elevation Beamwidth (3 dB)		degrees	6.2° ± 0.5°	5.8° ± 0.5°	5.5° ± 0.5°	5.0° ± 0.1°	4.8° ± 0.5°
Electrical Downtilt		degrees	2-12°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)				
Front-to-Back Ratio, Total Power, ± 30°		dB	22	25	26	24	21
First Upper Side Lobe Suppression		dB	16	17.4	19	17.4	18
Cross Polar Discrimination Over Sector		dB	10	7.5	9	11	2
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	21.4	25.2	24	24.5	24
Maximum Effective Power Per Port		Watts	200 W				
Cross Polar Isolation		dB	28				
Interband Isolation		dB	28				

Specifications follow BASTA guidelines.

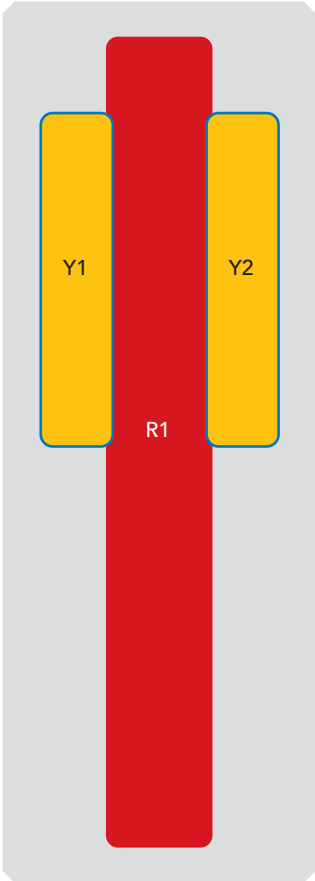
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BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
<span style="color: red;">■</span> R1	690-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxxx-R1
<span style="color: yellow;">■</span> Y1	1695-2690 MHz	3-4	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxx-Y1
<span style="color: yellow;">■</span> Y2	1695-2690 MHz	5-6	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxx-Y2



The illustration is not shown to scale.

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### MECHANICAL SPECIFICATIONS

Length		mm (in)	2498 (98.3)
Width		mm (in)	378 (14.9)
Depth		mm (in)	158 (6.2)
Net Weight - Antenna Only		kg (lbs)	25.3 (55.8)
Wind Load  Rated at 150 km/h (93 mph)	Front	N (lbf)	635 (143)
	Side	N (lbf)	529 (119)
	Rear	N (lbf)	754 (170)
Survival Wind Speed / Rated Wind Speed		km/h (mph)	200 (150)
Connector Type		--	(6x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom
Radome Color		---	Light Grey RAL7035
Radome Material		---	Fiberglass
Lightning Protection		---	DC Ground
<b>Shipping</b>	Packing Size (Length x Width x Depth)	mm (in)	2698 x 473 x 278 (106.2 x 18.6 x 10.9)

### 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) <i>Refer to ordering options</i>	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) <i>Refer to ordering options</i>	APM50-H1N	3.0 kg (6.6 lbs)

### INSTALLATION Please read all installation notes before installing product.

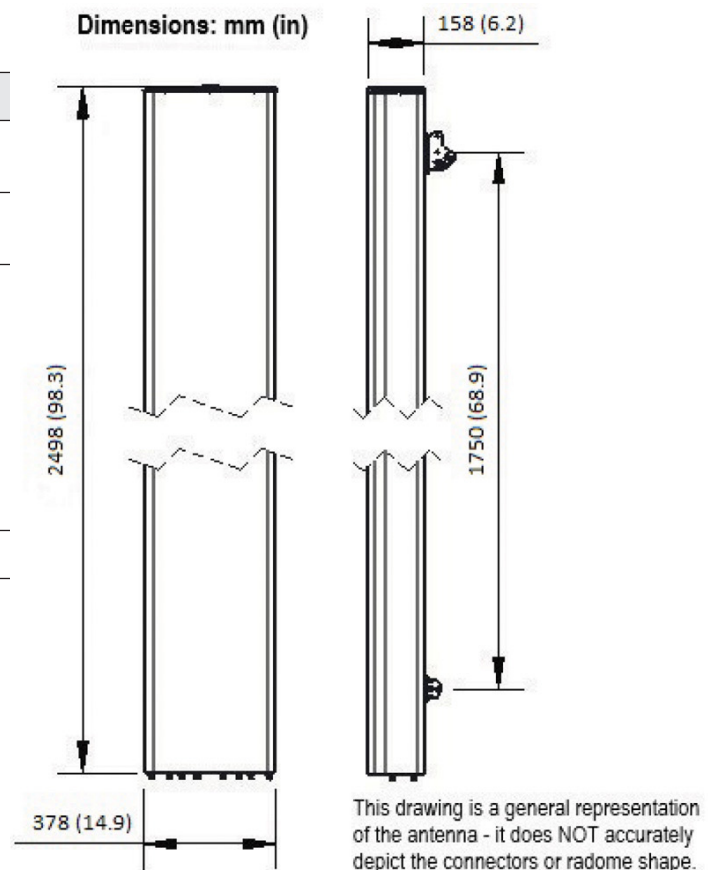


Always attach the antenna using all mounting points.

Do not install antenna with the connectors facing upwards.

### EXTERNAL DOCUMENT LINKS

[APM50 Mounting Kit Series Installation Instructions](#)



### NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check **External Document Links**.

For Radiating Patterns: [Request pattern files](#)