

10-Port Hybrid Beam Antenna

(1x) 698-960 (65°) | (4x) 1710-2690 MHz (33°)

65°/33°

2690 mm INTEGRATED RET SITE SHARING OPTIONAL

APXVB34L26AB_43-C-I20 APXVB34L26AB 43-C-I20S

Features

- Hybrid twin beam antenna
- 2 ports / 1 cross pol system in low band (698-960 MHz), 65°
- 4 ports + 4 ports, each 33° beam based on 2 cross pol systems (1710-2690 MHz) separated by 60°
- Integrated and field replaceable SRET
- Optional with Site Sharing feature (Model name suffix -I20S)
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	(1x) 698-960	(4x) 1710-2690							
_	Array	■ R1	■ Y1	■ Y2	■ Y3	■ Y4				
VIEW	Connector	1-2	3-4	5-6	7-8	9-10				
OVERVIEW		10 PORTS								
	Polarization	XPOL								
PRODUCT	Azimuth Beamwidth (avg)	65° 33°								
△	Electrical Downtilt	2-12°	-12° 2-12°							
	Dimensions	2690 x 350 x 200 mm (105.9 x 13.8 x 7.9 in)								

ORDERING OPTIONS Select from the following ordering option

Select from the following ordering options									
ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT	MOUNTING HARDWARE WEIGHT				
APXVB34L26AB_43-C-I20	ACU-I20-B5 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	50.5 kg (111.3 lbs)	4.5 kg (9.9 lbs)				
APXVB34L26AB_43-C-I20S	ACU-X20-B5 Internal RET for Site Sharing Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	50.5 kg (111.3 lbs)	4.5 kg (9.9 lbs)				







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ELECTRICAL	SPECIFICATIONS		■ R1				
Frequency Range MHz			698-960				
		MHz	698-806 790-894 880-9				
Polarization				±45°			
	Over all Tilts	dBi	15.8 ± 1.0	16.3 ± 0.8	16.4 ± 0.6		
Gain	Max Gain	dBi	16.8	17.1	17.0		
Azimuth Beamy	width (3 dB)	degrees	68.4° ± 2.2°	64.6° ± 3.7°	62.3° ± 1.9°		
Elevation Beam	nwidth (3 dB)	degrees	8.8° ± 0.9°	7.8° ± 0.8°	7.0° ± 0.4°		
Electrical Down	ntilt	degrees	2-12°				
Impedance		Ohms		50Ω			
VSWR (Return L	_oss)			1.5:1 (-14 dB)			
Passive Intermo	odulation	dBc	-1	153 (3rd Order for 2x20 W Carrie	rs)		
Front-to-Back R	Ratio, Total Power, ± 30°	dB	19.5	19.5	20.4		
First Upper Side	e Lobe Suppression	dB	18.5	13.7	14.8		
Cross Polar Dis	crimination Over Sector	dB	5	2.5	5.3		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	18.8	20.3	21.9		
Maximum Effective Power Per Port Watts			350 W				
Cross Polar Isol	ation	dB	26				
Interband Isolation dB			26				

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

V1

Frequency Range		MHz	1710-2690						
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarization	1				±45°				
_	Over all Tilts	dBi	17.3 ± 0.7	18.1 ± 0.4	18.5 ± 0.7	18.5 ± 0.8	18.1 ± 0.6		
Gain	Max Gain	dBi	18.0	18.5	19.2	19.3	18.7		
Azimuth Be	eamwidth (3 dB)	degrees	32.7° ± 2.6°	30.4° ± 2°	28.7° ± 2.9°	24.1° ± 1.2°	23.2° ± 2.3°		
Elevation B	eamwidth (3 dB)	degrees	7.9° ± 0.6°	7.3° ± 0.3°	6.9° ± 0.6°	6° ± 0.4°	5.6° ± 0.3°		
Beam Cente	er	degrees	±30°	±28°	±25°	±24°	±23°		
Electrical D	owntilt	degrees	2-12°						
Impedance		Ohms			50Ω				
VSWR (Retu	urn Loss)				1.5:1 (-14 dB)				
Passive Inte	ermodulation	dBc		-153 (3rd	d Order for 2x20 W	Carriers)			
Front-to-Ba	ick Ratio, Total Power, ± 30°	dB	21	23	23.8	21.5	21.5		
First Upper	Side Lobe Suppression	dB	14.5	16.2	16.3	16.3	17.3		
Maximum Effective Power Per Port Watts			250 W						
Cross Polar Isolation dB			26						
Interband Isolation dB			26						
Beam Isolation dB			13						

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APXVB34L26AB_43-C-I20 APXVB34L26AB_43-C-I20S

ELECTRICAL SPECIFICATIONS

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12

Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization					±45°		,	
C :	Over all Tilts	dBi	16.9 ± 0.7	17.7 ± 0.4	18.2 ± 0.9	18.2 ± 0.9	18.2 ± 0.6	
Gain	Max Gain	dBi	17.6	18.1	19.1	19.1	18.8	
Azimuth Bea	ımwidth (3 dB)	degrees	32.9° ± 3.2°	30.5° ± 1.8°	28.9° ± 2.9°	24.9° ± 2.2°	23.3° ± 1.3°	
Elevation Be	Elevation Beamwidth (3 dB)		8.1° ± 0.7°	7.5° ± 0.3°	7° ± 0.7°	6.1° ± 0.3°	5.6° ± 0.3°	
Beam Cente	r	degrees	±30°	±28°	±25°	±24°	±23°	
Electrical Do	wntilt	degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Retur	n Loss)		1.5:1 (-14 dB)					
Passive Inter	modulation	dBc	-153 (3rd Order for 2x20 W Carriers)					
Front-to-Bac	k Ratio, Total Power, ± 30°	dB	22.3	22.3	23.4	21.6	21.4	
First Upper S	Side Lobe Suppression	dB	17	18.6	18.1	17.4	17.5	
Maximum Effective Power Per Port Watts			250 W					
Cross Polar Isolation dB			26					
Interband Isolation dB			26					
Beam Isolation dB			13					

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ELECTRICAL SPECIFICATIONS

V2
13

Frequency Range		MHz	1710-2690						
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarization	1				±45°				
	Over all Tilts	dBi	17.5 ± 0.5	18.1 ± 0.4	18.6 ± 0.8	19 ± 0.7	18.3 ± 0.6		
Gain	Max Gain	dBi	18.0	18.5	19.4	19.7	18.9		
Azimuth Be	amwidth (3 dB)	degrees	32.3° ± 3°	30.3° ± 1.6°	28.5° ± 2.7°	24.4° ± 1.9°	23.7° ± 1.8°		
Elevation B	eamwidth (3 dB)	degrees	7.9° ± 0.5°	7.4° ± 0.3°	6.9° ± 0.6°	6° ± 0.3°	5.5° ± 0.3°		
Beam Cente	er	degrees	±30°	±28°	±25°	±24°	±23°		
Electrical D	owntilt	degrees	2-12°						
Impedance		Ohms			50Ω				
VSWR (Retu	ırn Loss)				1.5:1 (-14 dB)				
Passive Inte	ermodulation	dBc		-153 (3rd	d Order for 2x20 W	Carriers)			
Front-to-Ba	ck Ratio, Total Power, ± 30°	dB	22.7	23.9	24.8	22.8	20.1		
First Upper	Side Lobe Suppression	dB	15.9	15.8	15.8	14.4	16.2		
Maximum Effective Power Per Port Watts			250 W						
Cross Polar	Isolation	dB	26						
Interband Is	solation	dB	26						
Beam Isolation dB			13						

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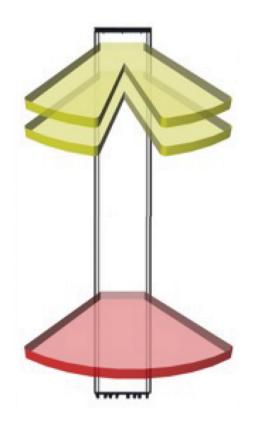
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ELECTRICAL SPECIFICATIONS

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14

Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	n				±45°			
C	Over all Tilts	dBi	16.9 ± 0.7	17.6 ± 0.4	18.2 ± 0.9	18.5 ± 0.8	18.1 ± 0.7	
Gain	Max Gain	dBi	17.6	18.0	19.1	19.3	18.8	
Azimuth Be	eamwidth (3 dB)	degrees	32.7° ± 2.6°	30.2° ± 0.8°	28.7° ± 2.2°	24.4° ± 1.6°	23.4° ± 1.5°	
Elevation E	Beamwidth (3 dB)	degrees	7.8° ± 0.4°	7.3° ± 0.2°	6.9° ± 0.5°	6° ± 0.2°	5.5° ± 0.3°	
Beam Cen	ter	degrees	±30°	±28°	±25°	±24°	±23°	
Electrical D	Downtilt	degrees	2-12°					
Impedance Ohms			50Ω					
VSWR (Ret	urn Loss)			1.5:1 (-14 dB)				
Passive Int	ermodulation	dBc		-153 (3rd	-153 (3rd Order for 2x20 W Carriers)			
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	21.1	22.9	23.6	23.4	21.8	
First Uppe	r Side Lobe Suppression	dB	17.5	18.9	18.8	16.1	17.6	
Maximum	Effective Power Per Port	Watts	250 W					
Cross Polar Isolation dB			26					
Interband Isolation dB			26					
Beam Isolation dB			13					

Specifications follow BASTA guidelines.



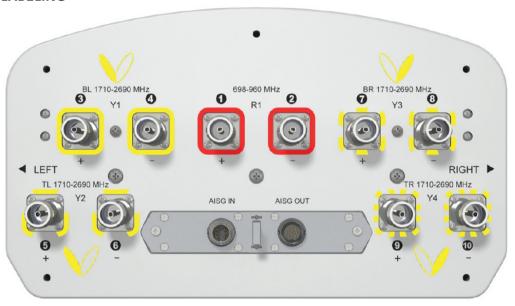


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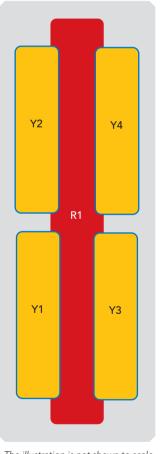
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BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
■ R1	698-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxxxx-R1
■ Y1	1710-2690 MHz	3-4	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxxxY1
■ Y2	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxxx-Y2
Y3	1710-2690 MHz	7-8	(2x) 4.3-10 Female	Y3	RFxxxxxxxxxxx-Y3
Y4	1710-2690 MHz	9-10	(2x) 4.3-10 Female	Y4	RFxxxxxxxxxxx-Y4



The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

Length			mm (in)	2690 (105.9)	
Width			mm (in)	350 (13.8)	
Depth			mm (in)	200 (7.9)	
Net Weight - Antenna Only		kg (lbs)	39.5 (87.1)		
Wind Load		Front	N (lbf)	713 (160)	
Rated at	Side		N (lbf)	746 (168)	
150 km/h (9	'3 mph)	Rear	N (lbf)	827 (186)	
Survival Wind Speed			km/h (mph)	200 (124)	
Connector Type				(10x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom Site Sharing: (4x) AISG Connectors (2 Male, 2 Female) at Bottom	
Radome Color				Light Grey RAL7035	
Radome Material				Fiberglass	
Lightning Protection				Direct Ground	
Shipping	Packing Size (Length x Width x Depth)		mm (in)	2940 x 445 x 295 (115.7 x 17.5 x 11.6)	
		·			

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)

INSTALLATION Please read all installation notes before installing product.

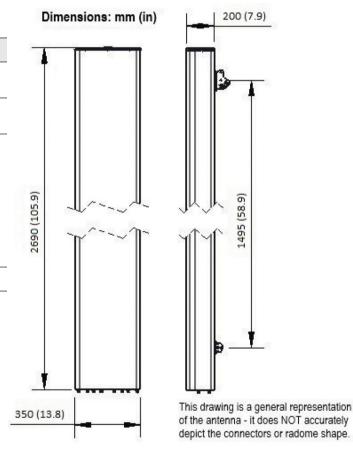


Always attach the antenna using all mounting points.

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