

APXVB4L26V_43-C-I20

Features

- 2 ports / 1 cross pol system in low band (698-960 MHz)
- 8 ports / 4 cross pol systems in high band (1710-2690 MHz)
- Supporting 4x4 MIMO in high band
- Integrated and field replaceable SRET
- ACU HW version: 2.02
- 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° 65°							
<u>a</u>	Electrical Downtilt	0-10° 0-10°							
	Dimensions	2690 x 350 x 200 mm (105.9 x 13.8 x 7.9 in)							

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
APXVB4L26V_43-C-I20	ACU-120-B5 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	51.5 kg (113.5 lbs)







Amphenol Antenna solutions

APXVB4L26V_43-C-I20

ELECTRICAL SPECIFICATIONS R1									
Frequency	/ Range	MHz		698-960					
		MHz	698-806	790-894	880-960				
Polarizatio	on			±45°					
C	Over all Tilts	dBi	16 ± 0.3	16.6 ± 0.5	16.6 ± 0.5				
Gain	Max Gain	dBi	16.3	17.1	17.1				
Azimuth B	eamwidth (3 dB)	degrees	66.3° ± 1.4°	64.3° ± 1.8°	64.1° ± 1.3°				
Elevation I	Beamwidth (3 dB)	degrees	8.9° ± 0.7°	7.8° ± 0.6°	7.2° ± 0.3°				
Electrical [Downtilt	degrees	0-10°						
Impedance	е	Ohms	50Ω				50Ω		
VSWR (Ret	turn Loss)			1.5:1 (-14 dB)					
Passive Int	termodulation	dBc	-150 (3rd Order for 2x20 W Carriers)						
Front-to-B	ack Ratio, Total Power, ± 30°	dB	23.8	25.7	25.4				
First Uppe	er Side Lobe Suppression	dB	21.7	19.1	16.4				
Cross Pola	ar Discrimination Over Sector	dB	12.1	9	10.6				
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	23.4 24.6		25.7				
Maximum Effective Power Per Port War		Watts	350 W						
Cross Polar Isolation		dB	26						
Interband	Isolation	dB		26					

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

	Y1

Frequency R	ange	MHz		1710	-2690		
		MHz	1710-1880	1920-2170	2300-2400	2490-2690	
Polarization				<u>±</u> 4	15°		
C :	Over all Tilts	dBi	15.9 ± 0.5	17.1 ± 0.7	16.8 ± 0.4	17.3 ± 0.7	
Gain	Max Gain	dBi	16.4	17.8	17.2	18.0	
Azimuth Bea	mwidth (3 dB)	degrees	62.1° ± 3.5°	63° ± 5.8°	67° ± 5.6°	59° ± 3.4°	
Elevation Be	amwidth (3 dB)	degrees	8.1° ± 0.6°	6.8° ± 0.6°	6.1° ± 0.5°	5.4° ± 0.2°	
Electrical Do	wntilt	degrees		0-	10°		
Impedance		Ohms	50Ω				
VSWR (Retur	n Loss)	1.5:1 (-14 dB)					
Passive Inter	modulation	dBc	-150 (3rd Order for 2x20 W Carriers)				
Front-to-Bac	k Ratio, Total Power, ± 30°	dB	21.4	22.3	22.4	22.8	
First Upper S	ide Lobe Suppression	dB	16.5	13.9	14	15	
Cross Polar [Discrimination Over Sector	dB	9	6.3	8.8	6.5	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	25.8	21.1	12.9	15	
Maximum Effective Power Per Port Watts			250 W				
Cross Polar Isolation dB			26				
Interband Iso	plation	dB		2	6		

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ELECTRICAL SPECIFICATIONS

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Frequency Range		MHz		1710	-2690		
		MHz	1710-1880	1920-2170	2300-2400	2490-2690	
Polarization	า			±4	ļ5°		
C	Over all Tilts	dBi	15.8 ± 0.7	16.8 ± 0.7	16.3 ± 0.5	16.7 ± 0.6	
Gain	Max Gain	dBi	16.5	17.5	16.8	17.3	
Azimuth Be	eamwidth (3 dB)	degrees	63.6° ± 5.4°	64.7° ± 5.7°	67.9° ± 5.1°	60.6° ± 4.3°	
Elevation B	Beamwidth (3 dB)	degrees	6.8° ± 0.6°	5.7° ± 0.7°	5.2° ± 0.4°	4.7° ± 0.3°	
Electrical D	Oowntilt	degrees	0-10°				
Impedance	?	Ohms	50Ω				
VSWR (Return Loss)			1.5:1 (-14 dB)				
Passive Inte	ermodulation	dBc	-150 (3rd Order for 2x20 W Carriers)				
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	19.7	22.1	22.4	22.3	
First Upper	Side Lobe Suppression	dB	17.4	17.2	17.7	15.5	
Cross Polar	Discrimination Over Sector	dB	9.4	6.4	8.6	6.1	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	24.1	21.7	15.8	16.2	
Maximum Effective Power Per Port Watts			250 W				
Cross Polar Isolation dB			26				
Interband I	solation	dB	26				

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

Frequency Ra	inge	MHz		1710	-2690		
		MHz	1710-1880	1920-2170	2300-2400	2490-2690	
Polarization				±4	15°		
C - : -	Over all Tilts	dBi	15.8 ± 0.6	17 ± 0.8	16.8 ± 0.6	17.2 ± 1	
Gain	Max Gain	dBi	16.4	17.8	17.4	18.2	
Azimuth Bear	nwidth (3 dB)	degrees	62.4° ± 5°	63.5° ± 5.7°	66.9° ± 5.6°	59.3° ± 3.1°	
Elevation Bea	mwidth (3 dB)	degrees	8.2° ± 0.6°	6.8° ± 0.7°	6° ± 0.4°	5.4° ± 0.3°	
Electrical Dov	vntilt	degrees		0-	10°		
Impedance		Ohms	50Ω				
VSWR (Return	n Loss)		1.5:1 (-14 dB)				
Passive Intern	nodulation	dBc	-150 (3rd Order for 2x20 W Carriers)				
Front-to-Back	Ratio, Total Power, ± 30°	dB	20.8	21.1	22.1	22.2	
First Upper Si	de Lobe Suppression	dB	13.4	13.2	12.2	13.7	
Cross Polar D	iscrimination Over Sector	dB	7.5	6.9	7.8	6.5	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	20.7	18.6	12.7	17.3	
Maximum Effective Power Per Port Watts			250 W				
Cross Polar Isolation dB			26				
Interband Iso	lation	dB		2	26		

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ELECTRICAL SPECIFICATIONS

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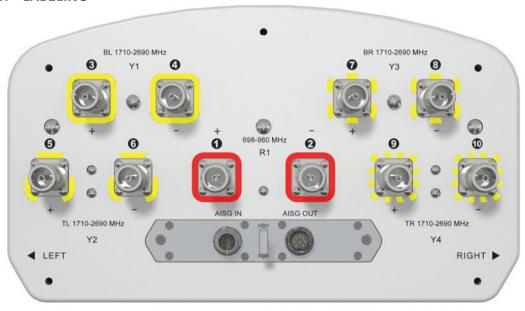
Frequency Range		MHz		1710	-2690		
		MHz	1710-1880	1920-2170	2300-2400	2490-2690	
Polarization				<u>+</u> 4	15°		
C :	Over all Tilts	dBi	15.8 ± 0.6	16.8 ± 0.8	16.3 ± 0.5	16.7 ± 0.7	
Gain	Max Gain	dBi	16.4	17.6	16.8	17.4	
Azimuth Bear	mwidth (3 dB)	degrees	63.9° ± 6.1°	64.5° ± 4.6°	68.2° ± 4.9°	60.9° ± 3.8°	
Elevation Bea	amwidth (3 dB)	degrees	6.7° ± 0.5°	5.6° ± 0.7°	5.2° ± 0.4°	4.7° ± 0.3°	
Electrical Do	wntilt	degrees	0-10°				
Impedance		Ohms	50Ω				
VSWR (Retur	n Loss)		1.5:1 (-14 dB)				
Passive Inter	modulation	dBc	-150 (3rd Order for 2x20 W Carriers)				
Front-to-Back	k Ratio, Total Power, ± 30°	dB	20.4	21.8	22	22.3	
First Upper S	iide Lobe Suppression	dB	17.2	17.6	17.9	17.3	
Cross Polar D	Discrimination Over Sector	dB	6.4	5.7	8.9	6.5	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	20.6	19.2	15.7	16.8	
Maximum Effective Power Per Port Watts			250 W				
Cross Polar Isolation dB			26				
Interband Isc	plation	dB		2	26		

Specifications follow BASTA guidelines.



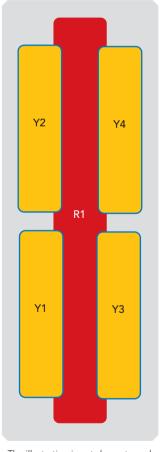
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BOTTOM VIEW - LABELING



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	RFxxxxxxxxxxx-Y1
■ 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	Y3	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)	34.5 (76.1)	
Net Weight - Mounting Hardware Only		kg (lbs)	4.5 (9.9)		
Wind Load		Front	N (lbf)	1189 (267)	
Rated at		Side	N (lbf)	617 (139)	
150 km/h (9	73 mph)	Rear	N (lbf)	673 (151)	
Survival Wind Speed / Rated Wind Speed			km/h (mph)	200 (150)	
Connector Type				(10x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 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 × 445 × 295 (115.7 × 17.5 × 11.6)	
	Shipping Weight		kg (lbs)	51.5 (113.5)	

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	

65°

2690 mm INTEGRATED RET

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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.

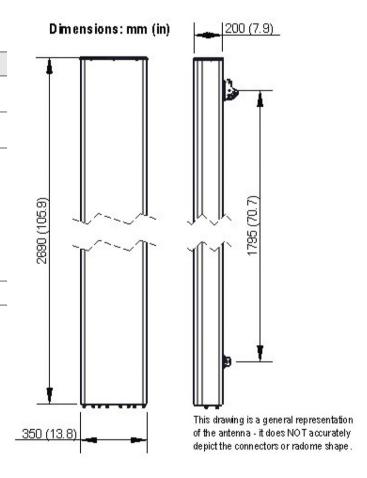


Always attach the antenna using all mounting points.

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