

APXVB4L26B_43-C-I20 APXVB4L26B_43-C-I20S

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)
- Integrated and field replaceable SRET
- Optional with Site Sharing feature (Model name suffix -I20S)
- Compliant with AISG v2.0 and 3GPP



PRODUCT OVERVIEW	Frequency Range (MHz)	(1x) 698-960	(4x) 1710-2690			
	Array	■ R1	■ Y1	■ Y2	■ Y3	■ Y4
	Connector	1-2	3-4	5-6	7-8	9-10
		10 PORTS				
	Polarization	XPOL				
	Azimuth Beamwidth (avg)	65°	65°			
	Electrical Downtilt	2-11°	2-11°			
	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	MOUNTING HARDWARE WEIGHT
APXVB4L26B_43-C-I20	ACU-I20-B5 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	51.5 kg (113.5 lbs)	4.5 kg (9.9 lbs)
APXVB4L26B_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)	51.5 kg (113.5 lbs)	4.5 kg (9.9 lbs)



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65°

2690 mm

INTEGRATED RET

SITE SHARING OPTIONAL

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ELECTRICAL SPECIFICATIONS

■ R1

Frequency Range		MHz	698-960		
		MHz	698-806	790-894	880-960
Polarization		---	±45°		
Gain	Over all Tilts	dBi	16 ± 0.3	16.6 ± 0.5	16.6 ± 0.5
	Max Gain	dBi	16.3	17.1	17.1
Azimuth Beamwidth (3 dB)		degrees	66.3° ± 1.4°	64.3° ± 1.8°	64.1° ± 1.3°
Elevation Beamwidth (3 dB)		degrees	8.9° ± 0.7°	7.8° ± 0.6°	7.2° ± 0.3°
Electrical Downtilt		degrees	2-11°		
Impedance		Ohms	50Ω		
VSWR (Return Loss)		---	1.5:1 (-14 dB)		
Passive Intermodulation		dBc	-150 (3rd Order for 2x20 W Carriers)		
Front-to-Back Ratio, Total Power, ± 30°		dB	23.8	25.7	25.4
First Upper Side Lobe Suppression		dB	21.7	19.1	16.4
Cross Polar 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		Watts	350 W		
Cross Polar Isolation		dB	26		
Interband Isolation		dB	26		

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

■ Y1

Frequency Range		MHz	1710-2690				
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	15.9 ± 0.5	16.3 ± 0.4	17.1 ± 0.7	16.8 ± 0.4	17.3 ± 0.7
	Max Gain	dBi	16.4	16.7	17.8	17.2	18.0
Azimuth Beamwidth (3 dB)		degrees	62.1° ± 3.5°	63.7° ± 3.1°	63° ± 5.8°	67° ± 5.6°	59° ± 3.4°
Elevation Beamwidth (3 dB)		degrees	8.1° ± 0.6°	7.7° ± 0.5°	6.8° ± 0.6°	6.1° ± 0.5°	5.4° ± 0.2°
Electrical Downtilt		degrees	2-11°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-150 (3rd Order for 2x20 W Carriers)				
Front-to-Back Ratio, Total Power, ± 30°		dB	21.4	23	22.3	22.4	22.8
First Upper Side Lobe Suppression		dB	16.5	15.6	14	14.1	15.1
Cross Polar Discrimination Over Sector		dB	9	8.6	6.3	8.8	6.5
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	25.8	25.6	21.1	12.9	15
Maximum Effective Power Per Port		Watts	250 W				
Cross Polar Isolation		dB	26				
Interband Isolation		dB	26				

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65°

2690 mm

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ELECTRICAL SPECIFICATIONS

■ Y2

Frequency Range		MHz	1710-2690				
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	15.8 ± 0.7	16.3 ± 0.6	16.8 ± 0.7	16.3 ± 0.5	16.7 ± 0.6
	Max Gain	dBi	16.5	16.9	17.5	16.8	17.3
Azimuth Beamwidth (3 dB)		degrees	63.6° ± 5.4°	65.2° ± 5.1°	64.7° ± 5.7°	67.9° ± 5.1°	60.6° ± 4.3°
Elevation Beamwidth (3 dB)		degrees	6.8° ± 0.6°	6.3° ± 0.7°	5.7° ± 0.7°	5.2° ± 0.4°	4.8° ± 0.3°
Electrical Downtilt		degrees	2-11°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-150 (3rd Order for 2x20 W Carriers)				
Front-to-Back Ratio, Total Power, ± 30°		dB	19.7	20.7	22.1	22.4	22.3
First Upper Side Lobe Suppression		dB	17.5	16.6	16.8	17.1	14.8
Cross Polar Discrimination Over Sector		dB	9.4	8.3	6.4	8.6	6.1
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	24.1	24.4	21.7	15.8	16.2
Maximum Effective Power Per Port		Watts	250 W				
Cross Polar Isolation		dB	26				
Interband Isolation		dB	26				

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

■ Y3

Frequency Range		MHz	1710-2690				
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	15.8 ± 0.6	16.2 ± 0.5	17 ± 0.8	16.8 ± 0.6	17.2 ± 1
	Max Gain	dBi	16.4	16.7	17.8	17.4	18.2
Azimuth Beamwidth (3 dB)		degrees	62.4° ± 5°	64.1° ± 3.5°	63.5° ± 5.7°	66.9° ± 5.6°	59.3° ± 3.1°
Elevation Beamwidth (3 dB)		degrees	8.2° ± 0.6°	7.7° ± 0.7°	6.8° ± 0.6°	6° ± 0.4°	5.4° ± 0.3°
Electrical Downtilt		degrees	2-11°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-150 (3rd Order for 2x20 W Carriers)				
Front-to-Back Ratio, Total Power, ± 30°		dB	20.8	20.4	21.1	22.1	22.2
First Upper Side Lobe Suppression		dB	13.4	13.3	13.4	12.2	13.7
Cross Polar Discrimination Over Sector		dB	7.5	7.4	6.9	7.8	6.5
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	20.7	18.6	18.6	12.7	17.3
Maximum Effective Power Per Port		Watts	250 W				
Cross Polar Isolation		dB	26				
Interband Isolation		dB	26				

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65°

2690 mm

INTEGRATED RET

SITE SHARING OPTIONAL

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ELECTRICAL SPECIFICATIONS

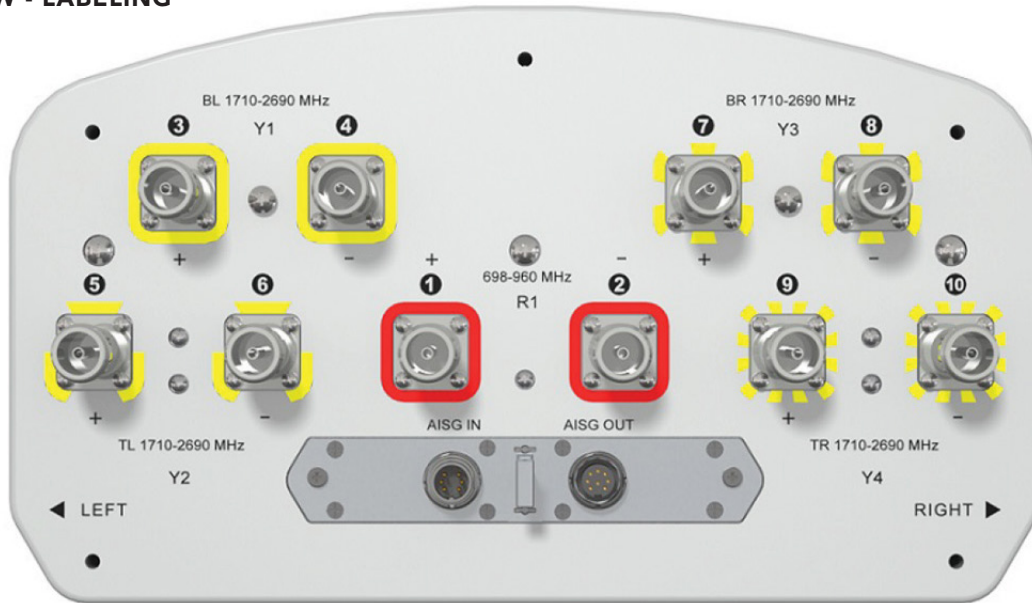
■ Y4

Frequency Range		MHz	1710-2690				
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	15.8 ± 0.6	16.2 ± 0.7	16.8 ± 0.8	16.3 ± 0.5	16.7 ± 0.7
	Max Gain	dBi	16.4	16.9	17.6	16.8	17.4
Azimuth Beamwidth (3 dB)		degrees	63.9° ± 6.1°	64.8° ± 5.5°	64.5° ± 4.6°	68.2° ± 4.9°	60.9° ± 3.8°
Elevation Beamwidth (3 dB)		degrees	6.7° ± 0.5°	6.3° ± 0.6°	5.7° ± 0.7°	5.2° ± 0.4°	4.7° ± 0.3°
Electrical Downtilt		degrees	2-11°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-150 (3rd Order for 2x20 W Carriers)				
Front-to-Back Ratio, Total Power, ± 30°		dB	20.4	20.6	21.8	22	22.3
First Upper Side Lobe Suppression		dB	17.5	17.5	16.7	17.5	17
Cross Polar Discrimination Over Sector		dB	6.4	5.4	5.7	8.9	6.5
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	20.6	19.2	19.2	15.7	16.8
Maximum Effective Power Per Port		Watts	250 W				
Cross Polar Isolation		dB	26				
Interband Isolation		dB	26				

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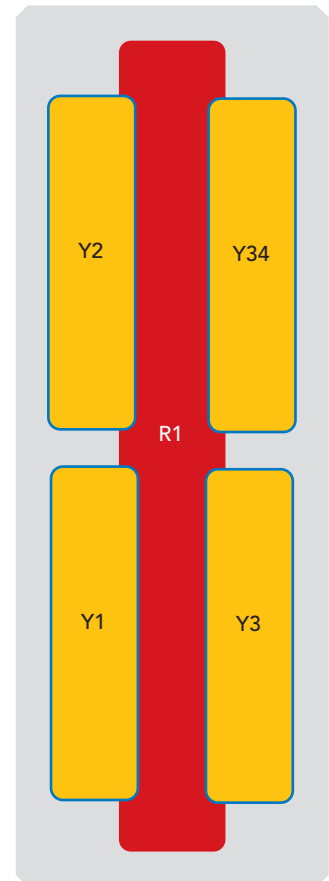
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BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
■ R1	698-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxxx-R1
■ Y1	1710-2690 MHz	3-4	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxx-Y1
■ Y2	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxx-Y2
■ Y3	1710-2690 MHz	7-8	(2x) 4.3-10 Female	Y3	RFxxxxxxxxxx-Y3
■ Y4	1710-2690 MHz	9-10	(2x) 4.3-10 Female	Y4	RFxxxxxxxxxx-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)
Wind Load Rated at 150 km/h (93 mph)	Front	N (lbf) 1189 (267)
	Side	N (lbf) 617 (139)
	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 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) <i>Shipped with antenna</i>	APM50-B1	4.5 kg (9.9 lbs)

INSTALLATION

Please read all installation notes before installing product.

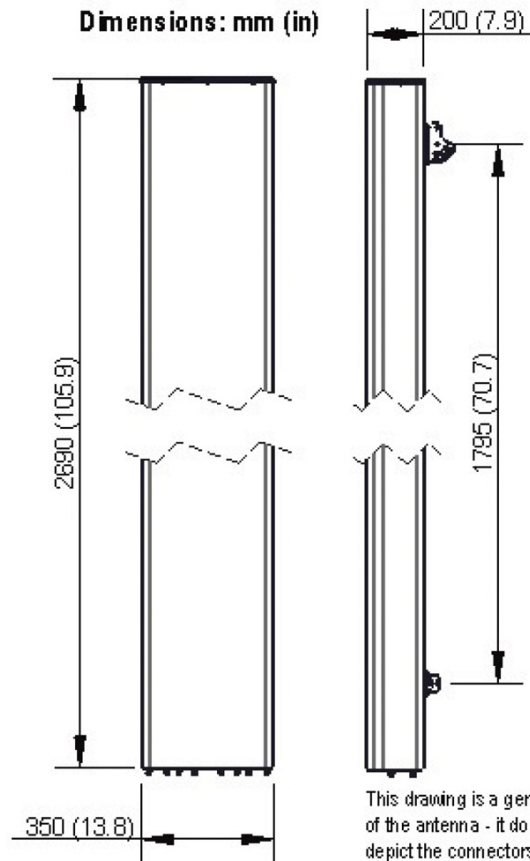


Always attach the antenna using all mounting points.

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](#)