

INTEGRATED RET SITE SHARING OPTIONAL

APXVB3L20B_43-C-I20 APXVB3L20B_43-C-120S

Features

- 2 ports / 1 cross pol system in low band (698-960 MHz)
- 6 ports / 3 cross pol systems in high band (1710-2690 MHz)
- Integrated and field replaceable SRET
- Optional with Site Sharing feature (Model name suffix -120S)
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	(1x) 698-960		(3x) 1710-2690				
_	Array	■ R1	■ Y1	■ Y2	■ Y3			
OVERVIEW	Commenter	1-2	3-4	5-6	7-8			
OVER	Connector	8 PORTS						
	Polarization	XPOL						
PRODUCT	Azimuth Beamwidth (avg)	65°	65°					
ъ.	Electrical Downtilt	2-12°	2-11°					
	Dimensions	1950 x 350 x 200 mm (76.8 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
APXVB3L20B_43-C-I20	ACU-120-B4 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	31.5 kg (69.4 lbs)	4.5 kg (9.9 lbs)
APXVB3L20B_43-C-I20S	ACU-X20-B4 Internal RET for Site Sharing Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	31.5 kg (69.4 lbs)	4.5 kg (9.9 lbs)







(1x) 698-960 | (3x) 1710-2690 MHz

65°

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ELECTRICA	AL SPECIFICATIONS		■ R1					
Frequency Range		MHz	1Hz 698-960					
		MHz	698-806	790-894	880-960			
Polarization			±45°					
Cata	Over all Tilts	dBi	15.4 ± 0.6	16.0 ± 0.6	16.6 ± 0.3			
Gain	Max Gain	dBi	16.0	16.6	16.9			
Azimuth Bea	mwidth (3 dB)	degrees	67.9° ± 1.6°	66.5° ± 1.7°	65.6° ± 0.6°			
Elevation Beamwidth (3 dB)		degrees	11.9° ± 0.9°	10.6° ± 0.7°	9.3° ± 0.6°			
Electrical Do	wntilt	degrees	2-12°					
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	24.4	25.1	25.7			
First Upper S	Side Lobe Suppression	dB	15.0	17.1	16.1			
Cross Polar [Discrimination Over Sector	dB	11.3	10.2	10.4			
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	27.1	26.8	24.6			
Maximum Effective Power Per Port Wa		Watts	350 W					
Cross Polar I	solation	dB	26					
Interband Iso	olation	dB		26				

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

Frequency Range MHz 1710-2690									
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarization				±45°					
Carr	Over all Tilts	dBi	15.2 ± 0.6	15.8 ± 0.3	15.9 ± 0.3	15.0 ± 0.8	15.8 ± 0.6		
Gain	Max Gain	dBi	15.8	16.1	16.2	15.8	16.4		
Azimuth Bea	amwidth (3 dB)	degrees	62.5° ± 4.4°	65.5° ± 4.1°	65.2° ± 4.6°	67.4° ± 6.1°	61.3° ± 2.7°		
Elevation Be	n Beamwidth (3 dB) degrees $9.9^{\circ} \pm 0.6^{\circ}$ $9.1^{\circ} \pm 0.4^{\circ}$ $8.6^{\circ} \pm 0.6^{\circ}$ $7.8^{\circ} \pm 0.7^{\circ}$				7.3° ± 0.4°				
Electrical Do	owntilt	degrees	2-11°						
Impedance		Ohms	50Ω						
VSWR (Retu	rn Loss)		1.5:1 (-14 dB)						
Passive Inte	rmodulation	dBc	-150 (3rd Order for 2x20 W Carriers)						
Front-to-Bac	ck Ratio, Total Power, ± 30°	dB	19.8	21.5	20.6	19.6	20.5		
First Upper	Side Lobe Suppression	dB	13.1	11.9	12.0	12.0	14.3		
Cross Polar	Discrimination Over Sector	dB	10.5	10.1	7.3	8.5	5.9		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)			19.8	22.1	22.0	14.2	15.5		
Maximum Effective Power Per Port Watts			250 W						
Cross Polar	Isolation	dB	26						
Interband Isolation dB 26				26					

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ELECTRICAL SPECIFICATIONS

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Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization	1				±45°			
	Over all Tilts	dBi	14.9 ± 0.5	15.6 ± 0.4	15.8 ± 0.5	14.7 ± 0.8	15.6 ± 0.6	
Gain	Max Gain	dBi	15.4	16.0	16.3	15.5	16.2	
Azimuth Beamwidth (3 dB)		degrees	62° ± 7.9°	67.5° ± 4.7°	66.6° ± 6.3°	71.1° ± 5°	62.1° ± 3°	
Elevation B	eamwidth (3 dB)	h (3 dB) degrees $10.2^{\circ} \pm 0.7^{\circ}$ $9.3^{\circ} \pm 0.5^{\circ}$ $8.8^{\circ} \pm 0.6^{\circ}$ $7.9^{\circ} \pm 0.5^{\circ}$				7.5° ± 0.6°		
Electrical D	Downtilt degrees 2-11°							
Impedance Oł			50Ω					
VSWR (Retu	ırn Loss)		1.5:1 (-14 dB)					
Passive Inte	ermodulation	dBc	-150 (3rd Order for 2x20 W Carriers)					
Front-to-Ba	ck Ratio, Total Power, ± 30°	dB	20.3	21.1	21	18.7	20.3	
First Upper	Side Lobe Suppression	dB	14.3	13.6	13.3	10.8	14.3	
Cross Polar	Discrimination Over Sector	dB	10.3	9.7	8.2	6.3	3.1	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	21.8	23.9	17.5	13.5	12.7	
Maximum Effective Power Per Port Wat		Watts	250 W					
Cross Polar	Isolation	dB	26					
Interband Is	solation	dB	26					

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

	Y3

Frequency R	Range	MHz	1710-2690						
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarization				±45°					
C . : .	Over all Tilts	dBi	15.1 ± 0.7	15.9 ± 0.3	15.9 ± 0.3	14.9 ± 0.6	15.7 ± 0.7		
Gain	Max Gain	dBi	15.8	16.2	16.2	15.5	16.4		
Azimuth Bea	Azimuth Beamwidth (3 dB)		61° ± 2.5°	63.4° ± 4.5°	63.8° ± 6.4°	67.3° ± 5.4°	61.4° ± 3.1°		
Elevation Be	Elevation Beamwidth (3 dB)		10° ± 0.6°	9.2° ± 0.5°	8.7° ± 0.7°	7.8° ± 0.6°	7.3° ± 0.4°		
Electrical Do	pwntilt	degrees	2-11°						
Impedance Ohms				50Ω					
VSWR (Retu	rn Loss)		1.5:1 (-14 dB)						
Passive Inter	rmodulation	dBc		-150 (3rd	d Order for 2x20 W	Carriers)			
Front-to-Bac	ck Ratio, Total Power, ± 30°	dB	19.8	21.6	21.7	19.1	19.2		
First Upper	Side Lobe Suppression	dB	12.6	12	11.9	10.6	12.7		
Cross Polar	Discrimination Over Sector	dB	9.2	9.5	5.7	7	6.4		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	20	19	18.3	15	15.3		
Maximum E	Maximum Effective Power Per Port Wa		250 W						
Cross Polar	Isolation	dB	26						
Interband Is	olation	dB	26						

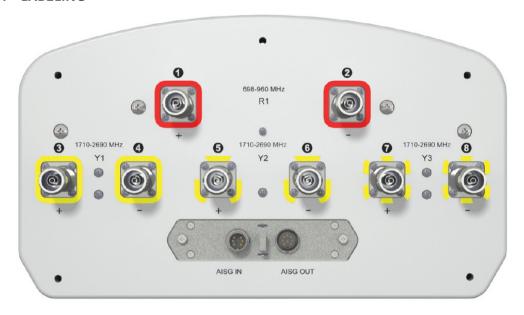
Specifications follow BASTA guidelines.



1950 mm INTEGRATED RET SITE SHARING OPTIONAL

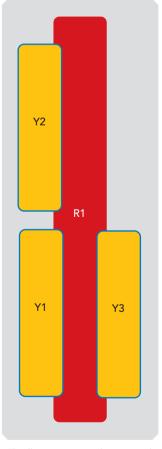
APXVB3L20B_43-C-I20 APXVB3L20B_43-C-I20S

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



The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

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.

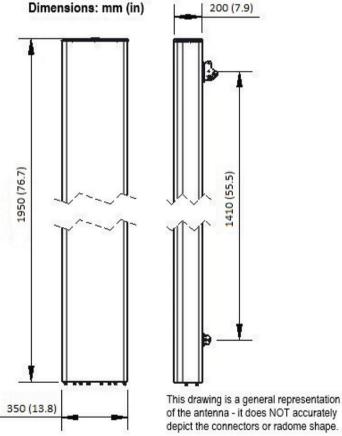


Always attach the antenna using all mounting points.

Do not install antenna with the connectors facing upwards.

EXTERNAL DOCUMENT LINKS

APM50 Mounting Kit Series Installation Instructions



of the antenna - it does NOT accurately depict the connectors or radome shape.

NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files