65°/65°/33° 2690 mm INTEGRATED RET SITE SHARING OPTIONAL

APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB 43-C-I20S

Features

- 2 ports / 1 cross pol system in low band (698-960 MHz), 65°
- 4 ports / 2 cross pol systems in high band (1710-2690 MHz), 65°
- 2 ports + 2 ports, each 33° beam based on 1 cross pol system (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	(2x) 171	0-2690	(2x) 1710-2690				
	Array	■ R1	■ R1 ■ Y1 ■ Y2		■ Y3	■ Y4			
OVERVIEW	Constant	1-2	3-4	5-6	7-8	9-10			
OVER	Connector	10 PORTS							
	Polarization	XPOL							
PRODUCT	Azimuth Beamwidth (avg)	65°	65°	33°	65°	33°			
4	Electrical Downtilt	2-12°	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 options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT	MOUNTING HARDWARE WEIGHT
APXVBLL3LL26AB_43-C-I20	ACU-120-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)
APXVBLL3LL26AB_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)





65°/65°/33°

2690 mm INTEGRATED RET SITE SHARING OPTIONAL

APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB_43-C-I20S

ELECTRICAL	. SPECIFICATIONS		■ R1				
Frequency Ran	nge	MHz	698-960				
		MHz	698-806	790-894	880-960		
Polarization				±45°			
	Over all Tilts	dBi	15.7 ± 0.6	16 ± 0.6	16.3 ± 0.5		
Gain	Max Gain	dBi	16.3	16.6	16.8		
Azimuth Beam	width (3 dB)	degrees	67.8° ± 1.5°	66.4° ± 1.4°	65.2° ± 1.3°		
Elevation Bean	nwidth (3 dB)	degrees	8.7° ± 0.9°	7.8° ± 0.6°	7.1° ± 0.4°		
Electrical Downtilt		degrees	2-12°				
Impedance		Ohms	50Ω				
VSWR (Return	Loss)		1.5:1 (-14 dB)				
Passive Interme	odulation	dBc	-150 (3rd Order for 2x20 W Carriers)				
Front-to-Back I	Ratio, Total Power, ± 30°	dB	21.3 24.6		25.5		
First Upper Sid	le Lobe Suppression	dB	14.1	14.2	12.4		
Cross Polar Dis	scrimination Over Sector	dB	11.7	10.5	11.5		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	22.6 29.2		27.3		
Maximum Effe	ctive Power Per Port	Watts	350 W				
Cross Polar Iso	lation	dB	26				
Interband Isolation dB		dB	26				

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

Y 1

Frequency Range		MHz	1710-2690							
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690			
Polarization					±45°					
C	Over all Tilts	dBi	16.5 ± 0.8	16.8 ± 0.4	17.2 ± 0.7	17 ± 0.6	16.8 ± 1			
Gain	Max Gain	dBi	17.3	17.2	17.9	17.6	17.8			
Azimuth Bea	nmwidth (3 dB)	degrees	61.1° ± 4.4°	64.4° ± 4.1°	65.1° ± 4.8°	67.5° ± 5.6°	60.4° ± 4°			
Elevation Be	amwidth (3 dB)	degrees	8.3° ± 0.7°	7.6° ± 0.7°	7.1° ± 0.6°	6.2° ± 0.2°	5.6° ± 0.4°			
Electrical Do	wntilt	degrees		2-12°						
Impedance		Ohms	50Ω							
VSWR (Retur	rn 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	20.3	21.8	22	23.2	24.2			
First Upper S	Side Lobe Suppression	dB	15.1	14.4	14.8	16	14.1			
Cross Polar [Discrimination Over Sector	dB	7.8	8.6	8.3	8.3	1.2			
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	20.4	19.5	17.7	17.3	18			
Maximum Effective Power Per Port		Watts	250 W							
Cross Polar Isolation		dB			26					
Interband Isolation		dB	26							

Specifications follow BASTA guidelines.



65°/65°/33° 2690 mm INTEGRATED RET SITE SHARING OPTIONAL

APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB_43-C-I20S

ELECTRICAL SPECIFICATIONS

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Frequency Range		MHz			1710-2690				
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarizatio	n				±45°	•			
C :	Over all Tilts	dBi	17.4 ± 0.8	17.9 ± 0.6	18.2 ± 0.8	18.2 ± 0.7	18.1 ± 0.5		
Gain	Max Gain	dBi	18.2	18.5	19.0	18.9	18.6		
Azimuth Be	eamwidth (3 dB)	degrees	33.8° ± 2.8°	31.1° ± 2.3°	29.4° ± 2.7°	24.3° ± 1.7°	23.4° ± 2.4°		
Elevation E	Beamwidth (3 dB)	degrees	8° ± 0.7°	7.4° ± 0.3°	7° ± 0.6°	6.1° ± 0.4°	5.6° ± 0.3°		
Beam Cen	ter	degrees	±30°	±28°	±25°	±24°	±23°		
Electrical D	Downtilt	degrees	2-12°						
Impedance	9	Ohms	50Ω						
VSWR (Ret	urn 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	24.1	24.2	25	23.5	23.4		
First Upper	r Side Lobe Suppression	dB	15.8	16.7	16.2	14.6	16.5		
Maximum Effective Power Per Port		Watts	250 W						
Cross Polar Isolation dB		dB	26						
Interband Isolation dB		dB	26						
Beam Isola	ition	dB			13				

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°					
C -: -	Over all Tilts	dBi	16.2 ± 1.1	16.7 ± 0.7	17.1 ± 0.9	17 ± 0.5	16.7 ± 0.8			
Gain	Max Gain	dBi	17.3	17.4	18.0	17.5	17.5			
Azimuth Bea	amwidth (3 dB)	degrees	61.7° ± 4.7°	63.8° ± 3.8°	64.2° ± 5.6°	67.6° ± 6.7°	60.3° ± 4.8°			
Elevation Be	eamwidth (3 dB)	degrees	8.3° ± 0.8°	7.6° ± 0.6°	7.2° ± 0.7°	6.2° ± 0.4°	5.7° ± 0.5°			
Electrical Do	owntilt	degrees			2-12°					
Impedance	Impedance		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	20.6	22.1	22.7	23.5	21.8			
First Upper	Side Lobe Suppression	dB	17	17.3	17.1	16	16			
Cross Polar	Discrimination Over Sector	dB	7.5	8.1	8	10.4	1.3			
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	17.5	17.6	17.1	22.3	18.9			
Maximum E	Maximum Effective Power Per Port		250 W							
Cross Polar	Cross Polar Isolation				26					
Interband Is	Interband Isolation		26							

Specifications follow BASTA guidelines.

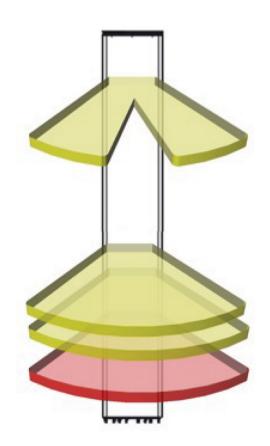
65°/65°/33° 2690 mm INTEGRATED RET SITE SHARING OPTIONAL

APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB_43-C-I20S

ELECTRICAL SPECIFICATIONS Y4

Frequency Range		MHz			1710-2690				
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarizatio	n				±45°				
<u> </u>	Over all Tilts	dBi	17.4 ± 0.7	17.9 ± 0.5	18.2 ± 0.7	18.4 ± 0.8	18.1 ± 0.5		
Gain	Max Gain	dBi	18.1	18.4	18.9	19.2	18.6		
Azimuth B	eamwidth (3 dB)	degrees	34.6° ± 2.6°	31.1° ± 2.1°	29.4° ± 2.8°	24.2° ± 1.4°	23.6° ± 1.9°		
Elevation E	Beamwidth (3 dB)	degrees	8.1° ± 0.8°	7.3° ± 0.3°	6.9° ± 0.6°	6.2° ± 0.3°	5.5° ± 0.3°		
Beam Center		degrees	±30°	±28°	±25°	±24°	±23°		
Electrical [Downtilt	degrees	2-12°						
Impedance	e	Ohms	50Ω						
VSWR (Ret	turn Loss)		1.5:1 (-14 dB)						
Passive Int	ermodulation	dBc	-150 (3rd Order for 2x20 W Carriers)						
Front-to-B	ack Ratio, Total Power, ± 30°	dB	23.6	24.1	25.1	23.1	21.7		
First Upper Side Lobe Suppression		dB	15.6	17	18.1	15.1	16.3		
Maximum Effective Power Per Port V		Watts	250 W						
Cross Polar Isolation dB		dB	26						
Interband Isolation dB		dB	26						
Beam Isola	ation	dB	13						

Specifications follow BASTA guidelines.

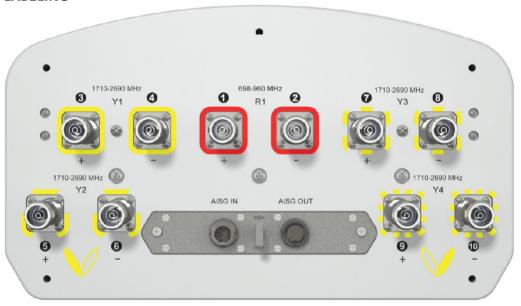




65°/65°/33° 2690 mm INTEGRATED RET SITE SHARING OPTIONAL

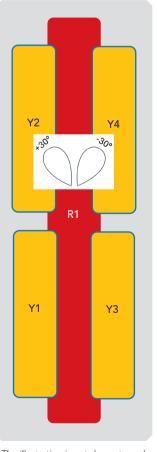
APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB_43-C-I20S

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	RFxxxxxxxxxx-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	RFxxxxxxxxxx-Y4



The illustration is not shown to scale.



65°/65°/33° 2690 mm INTEGRATED RET SITE SHARING OPTIONAL

APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB_43-C-I20S

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		827 (186)
Survival Wir	nd Speed / Rated	Wind Speed	km/h (mph)	200 (150)
Connector	Гуре			(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 Co	lor			Light Grey RAL7035
Radome Material			Fiberglass	
Lightning Protection			Direct Ground	
Shipping	Packing Size (Le	ength 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	



65°/65°/33° 2690 mm INTEGRATED RET SITE SHARING OPTIONAL

APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB 43-C-I20S

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.

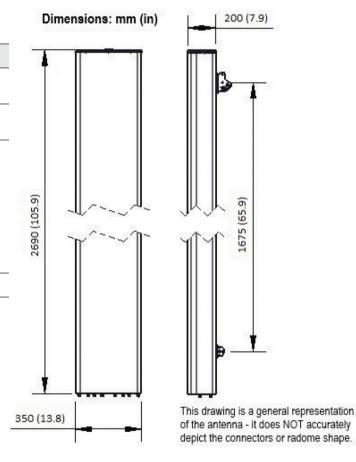


Always attach the antenna using all mounting points.

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