

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	R 1	Y 1	Y 2	Y 3	<mark> </mark>			
VIEW	Constant	1-2	3-4	5-6	7-8	9-10			
OVERVIEW	Connector	10 PORTS							
	Polarization	XPOL							
PRODUCT	Azimuth Beamwidth (avg)	65°	65°	33°	65°	33°			
₽.	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-120	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)





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R1

APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB_43-C-I20S

ELECTRICAL SPECIFICATIONS

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Frequency Range		MHz	698-960					
		MHz	698-806 790-894 880-960					
Polarizatio	n			±45°				
Caia	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 Be	eamwidth (3 dB)	degrees	67.8° ± 1.5°	66.4° ± 1.4°	65.2° ± 1.3°			
Elevation Beamwidth (3 dB)		degrees	8.7° ± 0.9°	7.8° ± 0.6°	7.1° ± 0.4°			
Electrical D	Downtilt	degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
Passive Int	ermodulation	dBc	-153 (3rd Order for 2x20 W Carriers)					
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	21.3 24.6		25.5			
First Uppe	r Side Lobe Suppression	dB	14.1 14.2		12.4			
Cross Pola	r Discrimination Over Sector	dB	11.7 10.5		11.5			
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	22.6 29.2 2		27.3			
Maximum	Effective Power Per Port	Watts	350 W					
Cross Pola	r Isolation	dB	26					
Interband	Isolation	dB	26					

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

ELECTRI	CAL SPECIFICATIONS				<mark> </mark>				
Frequency	Range	MHz			1710-2690				
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarizatio	n			·	±45°				
Gain	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 B	eamwidth (3 dB)	degrees	61.1° ± 4.4°	64.4° ± 4.1°	65.1° ± 4.8°	67.5° ± 5.6°	60.4° ± 4°		
Elevation E	Beamwidth (3 dB)	degrees	8.3° ± 0.7°	7.6° ± 0.7°	7.1° ± 0.6°	6.2° ± 0.2°	5.6° ± 0.4°		
Electrical D	Downtilt	degrees	2-12°						
Impedance		Ohms	50Ω						
VSWR (Return Loss)			1.5:1 (-14 dB)						
Passive Int	ermodulation	dBc	-153 (3rd Order for 2x20 W Carriers)						
Front-to-B	ack Ratio, Total Power, ± 30°	dB	20.3	21.8	22	23.2	24.2		
First Uppe	r Side Lobe Suppression	dB	15.1	14.4	14.8	16	14.1		
Cross Pola	r 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 Pola	r Isolation	dB			26		,		
Interband	Isolation	dB			26				

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Y2

APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB_43-C-I20S

ELECTRICAL SPECIFICATIONS

			- 12					
Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization	1				±45°			
Caile	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 Beamwidth (3 dB)		degrees	8° ± 0.7°	7.4° ± 0.3°	7° ± 0.6°	6.1° ± 0.4°	5.6° ± 0.3°	
Beam Cent	er	degrees	±30°	±28°	±25°	±24°	±23°	
Electrical Downtilt		degrees	2-12°					
Impedance	2	Ohms	50Ω					
VSWR (Retu	urn Loss)		1.5:1 (-14 dB)					
Passive Inte	ermodulation	dBc	-153 (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	Side Lobe Suppression	dB	15.8	16.7	16.2	14.6	16.5	
Maximum B	Effective Power Per Port	Watts	250 W					
Cross Polar Isolation dB			26					
Interband I	solation	dB	26					
Beam Isola	tion	dB			13			

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS									
Frequency	Range	MHz			1710-2690				
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarizatio	n			·	±45°	·	·		
Gain	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 Be	eamwidth (3 dB)	degrees	61.7° ± 4.7°	63.8° ± 3.8°	64.2° ± 5.6°	67.6° ± 6.7°	60.3° ± 4.8°		
Elevation E	Beamwidth (3 dB)	degrees	8.3° ± 0.8°	7.6° ± 0.6°	7.2° ± 0.7°	6.2° ± 0.4°	5.7° ± 0.5°		
Electrical Downtilt		degrees	2-12°						
Impedance		Ohms	50Ω						
VSWR (Return Loss)			1.5:1 (-14 dB)						
Passive Inte	ermodulation	dBc	-153 (3rd Order for 2x20 W Carriers)						
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	20.6	22.1	22.7	23.5	21.8		
First Upper	r Side Lobe Suppression	dB	17	17.3	17.1	16	16		
Cross Pola	r 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	Effective Power Per Port	Watts	250 W						
Cross Pola	r Isolation	dB	26						
Interband	Isolation	dB			26				

Specifications follow BASTA guidelines.



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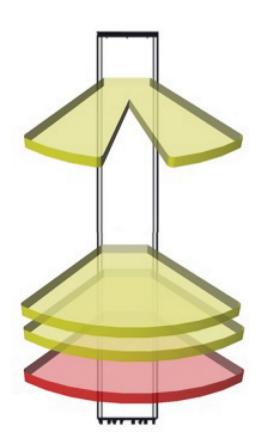
Y4

APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB_43-C-I20S

ELECTRICAL SPECIFICATIONS

			- 17					
Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization	ſ				±45°			
Call	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 Be	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 B	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 Cent	ter	degrees	±30°	±28°	±25°	±24°	±23°	
Electrical D	owntilt	degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Ret	urn Loss)		1.5:1 (-14 dB)					
Passive Inte	ermodulation	dBc	-153 (3rd Order for 2x20 W Carriers)					
Front-to-Ba	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 I	Effective Power Per Port	Watts	250 W					
Cross Polar Isolation dB			26					
Interband I	solation	dB	26					
Beam Isola	tion	dB	13					

Specifications follow BASTA guidelines.

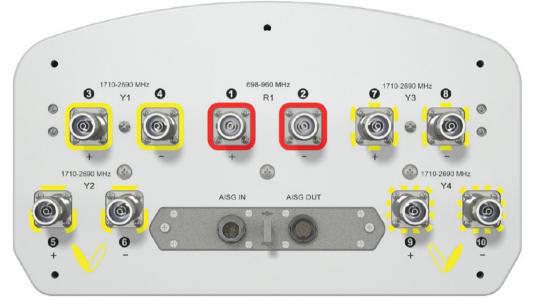




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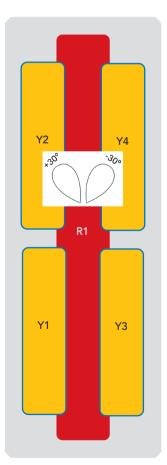
APXVBLL3LL26AB_43-C-I20 APXVBLL3LL26AB_43-C-I20S

BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID					
R 1	698-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxxxR1					
<mark> </mark> Y1	1710-2690 MHz	3-4	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxx-Y1					
<mark> </mark> Y2	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y2	RFxxxxxxxxx-Y2					
<mark> </mark>	1710-2690 MHz	7-8	(2x) 4.3-10 Female	Y3	RFxxxxxxxxxxY3					
¥ 4	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)	39.5 (87.1)
Wind Load		Front	N (lbf)	713 (160)
Rated at		Side	N (lbf)	746 (168)
150 km/h (9	'3 mph)	ph) Rear		827 (186)
Survival Wir	nd Speed	<u>^</u>	km/h (mph)	200 (124)
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	Shipping Packing Size (Length x Width x Depth)		mm (in)	2940 x 445 x 295 (115.7 x 17.5 x 11.6)
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

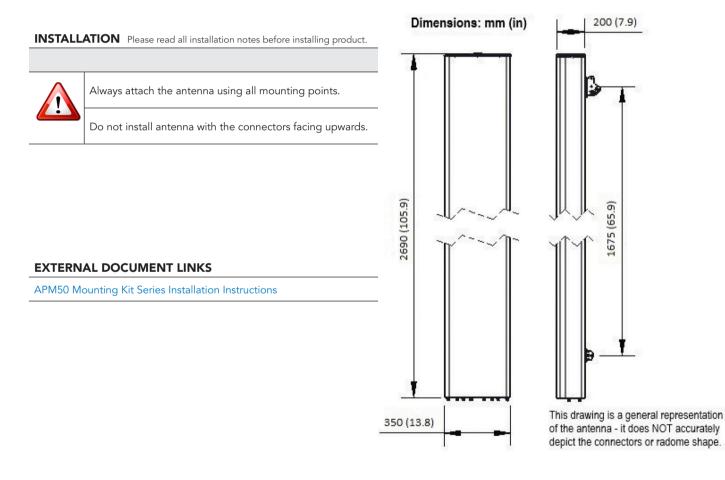


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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

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)



NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files