

2600 mm INTEGRATED RET

APXVBB26B_43-C-I20

Features

- 4 ports / 2 cross pol systems in low band (698-960 MHz)
- Supporting 4x4 MIMO
- Integrated and field replaceable SRET
- ACU HW version: 2.02
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	698-960					
PRODUCT OVERVIEW	Array	■ R1	■ R2				
	C	1-2	3-4				
	Connector	4 PORTS					
	Polarization	XPOL					
	Azimuth Beamwidth (avg)	65°					
	Electrical Downtilt	2-12°					
	Dimensions	2600 x 499 x 199 mm (102.4 x 19.6 x 7.8 in)					

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
APXVBB26B_43-C-I20	ACU-I20-B2 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	49 kg (108 lbs)







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ELECTR	ICAL SPECIFICATIONS			■ R1		
Frequency Range		MHz		698-960		
		MHz	698-806	790-894	880-960	
Polarizatio	on			±45°		
C-:-	Over all Tilts	dBi	15.6 ± 1.7	16.8 ± 0.3	16.9 ± 0.4	
Gain	Max Gain	dBi	17.3	17.1	17.3	
Azimuth E	Beamwidth (3 dB)	degrees	65.3° ± 5.8°	59.4° ± 2.8°	59.7° ± 2.3°	
Elevation	Beamwidth (3 dB)	degrees	8.8° ± 0.7°	8.0° ± 0.5°	7.2° ± 0.4°	
Electrical Downtilt		degrees	2-12°			
Impedance		Ohms	50Ω			
VSWR (Return Loss)			1.5:1 (-14 dB)			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc		-150		
Front-to-E	Back Ratio, Total Power, ± 30°	dB	21.0	21.8	19.4	
First Uppe	er Side Lobe Suppression	dB	15.7	16.2	12.6	
Cross Pola	ar Discrimination Over Sector	dB	7.8	11.2	10.0	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	14.7	18.7	23.4	
Maximum Effective Power Per Port		Watts	350 W			
Cross Polar Isolation		dB	27			
Interband Isolation		dB	27			

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS	
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Frequency Range		MHz		698-960			
		MHz	698-806	790-894	880-960		
Polarizatio	on			±45°			
Gain	Over all Tilts	dBi	15.7 ± 1.4	16.8 ± 0.3	16.9 ± 0.4		
	Max Gain	dBi	17.1	17.1	17.3		
Azimuth E	Beamwidth (3 dB)	degrees	64.7° ± 5.3°	58.6° ± 3.5°	59.5° ± 3.2°		
Elevation	Beamwidth (3 dB)	degrees	8.7° ± 0.7°	7.9° ± 0.5°	7.1° ± 0.5°		
Electrical	Downtilt	degrees	2-12°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)			1.5:1 (-14 dB)				
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-150				
Front-to-Back Ratio, Total Power, ± 30°		dB	21.3	23.1	22.0		
First Uppe	er Side Lobe Suppression	dB	13.4	14.4	12.9		
Cross Polar Discrimination Over Sector		dB	6.1	11.5	6.0		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	12.9	18.2	23.7		
Maximum Effective Power Per Port		Watts	350 W				
Cross Polar Isolation		dB	27				
Interband	Interband Isolation		27				

Specifications follow BASTA guidelines.

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BOTTOM VIEW - LABELING

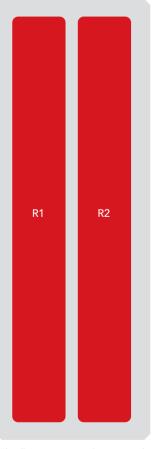
Amphenol

ANTENNA SOLUTIONS



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
■ R2	698-960 MHz	3-4	(2x) 4.3-10 Female	R2	RFxxxxxxxxxxx-R2



The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

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Length		mm (in)	2600 (102.4)		
Width			mm (in)	499 (19.6)	
Depth		mm (in)	199 (7.8)		
Net Weight - Antenna Only		kg (lbs)	38 (83.8)		
Net Weight - Mounting Hardware Only		kg (lbs)	4.5 (9.9)		
Wind Load		Front	N (lbf)	1515 (341)	
Rated at		Side	N (lbf)	537 (121)	
150 km/h (9	'3 mph)	Rear	N (lbf)	1704 (383)	
Survival Wind Speed / Rated Wind Speed		km/h (mph)	200 (150)		
Connector Type			(4x) 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		
Chii.	Packing Size (Length x Width x Depth)		mm (in)	2850 x 560 x 275 (112.2 x 22.0 x 10.8)	
Shipping	Shipping Weight		kg (lbs)	49 (108)	

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

2600 mm

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Amphenol ANTENNA SOLUTIONS

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.

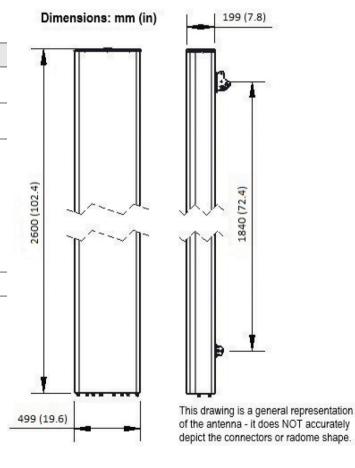


Always attach the antenna using all mounting points.

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