

2-Port Panel Antenna

698-960 MHz

65° 2005 mm INTEGRATED RET

APXVB20B_43-C-I20 APXVB20B_43-A-I20

Features

- 2 ports / 1 cross pol system in low band (698-960 MHz)
- Integrated and field replaceable SRET
- ACU HW version -2.02
- Optional with Direct Pipe No Tilt mounting hardware (Model name suffix -A-I20)
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	698-960
_	Array	R1
OVERVIEW		1-2
OVER	Connector	2 PORTS
	Polarization	XPOL
PRODUCT	Azimuth Beamwidth (avg)	65°
ш	Electrical Downtilt	2-12°
	Dimensions	2005 x 320 x 140 mm (78.9 x 12.6 x 5.5 in)

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT	MOUNTING HARDWARE WEIGHT
APXVB20B_43-C-I20	ACU-I20-B1 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	26.0 kg (57.3 lbs)	4.5 kg (9.9 lbs)
APXVB20B_43-A-I20	ACU-I20-B1 Internal RET Included	APM50-B1N Direct Pipe No Tilt Mounting Kit Included	50-110 mm (2.0-4.3 in)	24.9 kg (54.9 lbs)	3.4 kg (7.5 lbs)





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R1

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Frequency Range		MHz		698-960				
		MHz	698-806	790-894	880-960			
Polarizatior	n		±45°					
_	Over all Tilts	dBi	15.1 ± 1.0	16.0 ± 1.0	16.5 ± 0.5			
Gain	Max Gain	dBi	16.1	17.0	17.0			
Azimuth Be	eamwidth (3 dB)	degrees	68.4° ± 1.5°	66.0° ± 2.0°	63.5° ± 1.5°			
Elevation B	Beamwidth (3 dB)	degrees	11.8° ± 1.0°	10.3° ± 1.0°	9.0° ± 1.0°			
Electrical D	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-Ba	ack Ratio, Total Power, ± 30°	dB	24	25.9	25			
First Upper Side Lobe Suppression		dB	22	21	17			
Cross Polar Discrimination Over Sector		dB	13	12	11			
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	30 28		30			
Maximum Effective Power Per Port		Watts	350 W					
Cross Polar Isolation		dB	26					

Specifications follow BASTA guidelines.



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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	RFxxxxxxxxxxxR1



The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

Shipping Packing Size (Length x Width x Depth)		mm (in)	2285 x 415 x 235 (90.0 x 16.3 x 9.3)		
Lightning Protection			Direct Ground		
Radome Material			Fiberglass		
Radome Color			Light Grey RAL7035		
Connector Type			(2x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom		
Survival Wind Speed		km/h (mph)	200 (124)		
150 km/h (9	mph) Rear		N (lbf)	513 (115)	
Rated at	Side		N (lbf)	377 (85)	
Wind Load		Front	N (lbf)	432 (97)	
Net Weight - Antenna Only		kg (lbs)	18.5 (40.8)		
Depth		mm (in)	140 (5.5)		
Width			mm (in)	320 (12.6)	
Length		mm (in)	2005 (78.9)		

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	



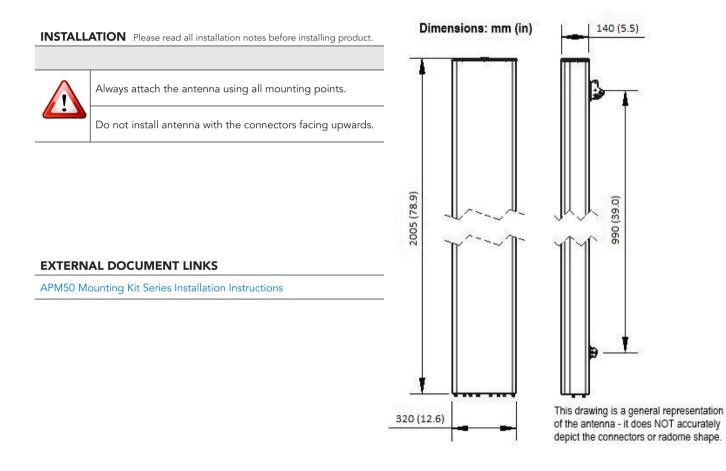
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-110 mm (2.0-4.3 in) Refer to ordering options	АРМ50-В1	4.5 kg (9.9 lbs)
Direct Pipe No Tilt Bracket Kit for Pole Diameter 50-110 mm (2.0-4.3 in) Refer to ordering options	APM50-B1N	3.4 kg (7.5 lbs)



NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files