PRODUCT DATASHEET

APXVBL20B_43-C-I20

4-Ports, X-Pol, Panel Antenna, 2.0m, 698-960/1710-2690MHz, 65deg, Integrated RET

FEATURES / BENEFITS

- 2 ports / 1 cross pol system in low band (698-960MHz)
- 2 ports / 1 cross pol system in high band (1710-2690MHz)
- Integrated and field replaceable SRET
- ACU HW Version: 2.02
- Compliant with AISG V2.0 and 3GPP

Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		Low Band Array (698-960 MHz) [R1]		
Frequency Band	MHz	698-806	790-894	880-960
Gain Typical	dBi	15.8	16.4	16.7
Gain Over all Tilts	dBi	15.4 +/- 0.4	16 +/- 0.4	16.4 +/- 0.3
Azimuth Beamwidth 3dB	Deg	68.3 +/- 1.6	66.2 +/- 1.8	65.4 +/- 1.2
Elevation Beamwidth 3dB	Deg	12.2 +/- 1	10.8 +/- 0.7	9.5 +/- 0.7
Cross Polar Discrimination at Boresight	dB	25.8	24.9	23.4
Cross Polar Discrimination over Sector	dB	11.4	10	9.6
F/B at +/-30deg Total Power	dB	25.4	25.3	23.8
First Upper Side Lobe Suppression	dB	20.2	18	13.5
Electrical Downtilt	Deg	2 to 12		
Cross Polar Isolation	dB	26		
Interband Isolation	dB	26		
VSWR	-	1.5		
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-150		
Maximum Effective Power per Port	Watt	350		

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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Array (1710-2690 MHz) [Y1]				
Frequency Band	MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	16.8	17	17.3	16.8	17.4
Gain Over all Tilts	dBi	16.4 +/- 0.4	16.7 +/- 0.3	16.8 +/- 0.5	16.1 +/- 0.7	16.8 +/- 0.6
Azimuth Beamwidth 3dB	Deg	62.5 +/- 6.4	67.6 +/- 4.6	65.9 +/- 7.9	67.9 +/- 4.9	62.6 +/- 3.6
Elevation Beamwidth 3dB	Deg	6.6 +/- 0.5	6.2 +/- 0.4	5.8 +/- 0.6	5 +/- 0.4	4.6 +/- 0.3
Cross Polar Discrimination at Boresight	dB	21.9	22.7	22.7	17.7	18.2
Cross Polar Discrimination over Sector	dB	9.1	8.9	7.6	8.7	1.6
F/B at +/-30deg Total Power	dB	20.3	22.2	22.7	22.9	23.4
First Upper Side Lobe Suppression	dB	16.9	17.5	17.9	14.6	14.9
Electrical Downtilt	Deg	2 to 11				
Cross Polar Isolation	dB	26				
Interband Isolation	dB	26				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-150				
Maximum Effective Power per Port	Watt	250				

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	1950 x 350 x 200 (76.7 x 13.8 x 7.9)
Weight (Antenna Only)	kg (lb)	21 (46.3)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	2200 x 445 x 295 (86.6 x 17.5 x 11.6)
Shipping Weight	kg (lb)	30 (66.1)
Connector type		4 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiberglass / Light Grey RAL7035

TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		DC Ground
Survival/Rated Wind Velocity	km/h	200 (150)
Wind Load @Rated Wind Front	N	880
Wind Load @Rated Wind Side	N	456
Wind Load @Rated Wind Rear	N	498

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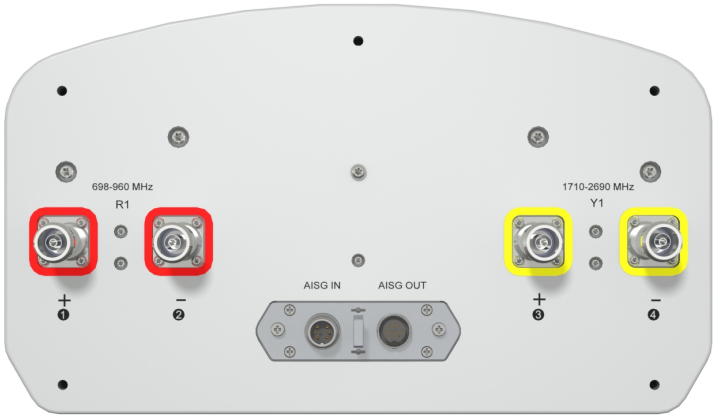
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVBL20B_43-C-I20	Internal RET (ACU-I20-B2)	APM50-B1	50-110mm	30 kg



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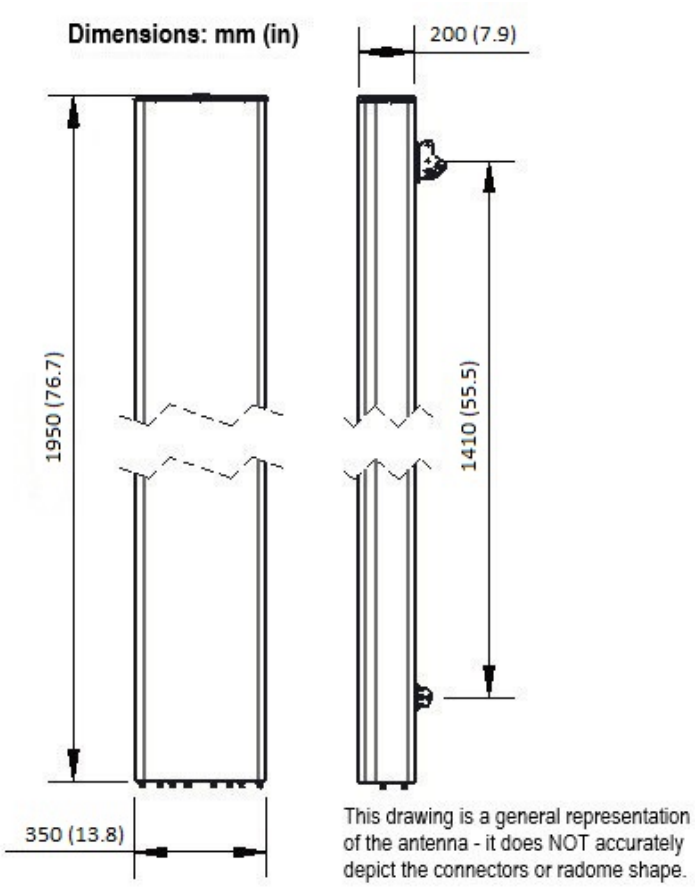

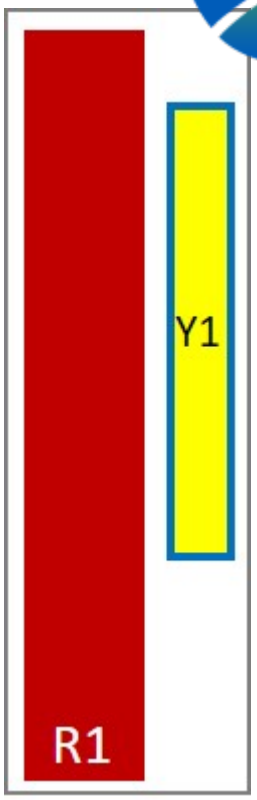

External Document Links

APM50_Series_Installation_Instructions

Notes

- All electrical parameters are compliant with BASTA NGMN 11.1 requirements.
- For additional mounting information please click "External Document Links".

- **Radiating patterns:** Request pattern files