



**FEATURES / BENEFITS**

- 4 ports / 2 cross pol systems in high band (1710-2690MHz)
- Integrated and field replaceable SRET
- ACU HW Version -2.02 / SW Version -2.72
- Compliant with AISG V2.0 and 3GPP



**Technical features**

**ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		High Band Array (1710-2690 MHz) [Y1]				
Frequency Band	MHz	1710-1880	1850-1990	1920-2170	2300-2400	2500-2690
Gain Typical	dBi	18.6	19.1	19.3	19.3	19.4
Gain Over all Tilts	dBi	18.1 +/- 0.5	18.6 +/- 0.5	18.8 +/- 0.5	18.8 +/- 0.5	18.9 +/- 0.5
Azimuth Beamwidth 3dB	Deg	66.4 +/- 3	67.3 +/- 2	67.6 +/- 1.5	64.8 +/- 2	59.4 +/- 4.5
Elevation Beamwidth 3dB	Deg	5.2 +/- 0.5	5 +/- 0.1	4.5 +/- 0.5	4 +/- 0.1	4 +/- 0.1
Cross Polar Discrimination at Boresight	dB	18	23	25	26	22
Cross Polar Discrimination over Sector	dB	13	12	12	11	10
F/B at +/-30deg Total Power	dB	24.2	25	24	22	19
First Upper Side Lobe Suppression	dB	22	21	17.1	18.7	16.3
Electrical Downtilt	Deg	2 to 10				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153				
Maximum Effective Power per Port	Watt	250				

**ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		High Band Array (1710-2690 MHz) [Y2]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	18.6	19.2	19.4	19.2	20
Gain Over all Tilts	dBi	18.1 +/- 0.5	18.7 +/- 0.5	18.9 +/- 0.5	18.9 +/- 0.3	19 +/- 1
Azimuth Beamwidth 3dB	Deg	66.6 +/- 1.5	67 +/- 1.8	67.6 +/- 2	65.1 +/- 2.1	59.6 +/- 3.8
Elevation Beamwidth 3dB	Deg	5.1 +/- 0.5	5 +/- 0.1	4.5 +/- 0.5	4 +/- 0.1	4 +/- 0.1
Cross Polar Discrimination at Boresight	dB	19	23	25	26	21
Cross Polar Discrimination over Sector	dB	12.6	12	12	12	10.4
F/B at +/-30deg Total Power	dB	24	24	24	22	20
First Upper Side Lobe Suppression	dB	25	25.2	21	20.3	19.9
Electrical Downtilt	Deg	2 to 10				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153				
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)	2090 x 320 x 123 (82.3 x 12.6 x 4.8)
Weight (Antenna Only)	kg (lb)	22.3 (49.2)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	2350 x 410 x 250 (92.5 x 16.1 x 9.8)
Shipping Weight	kg (lb)	32.1 (70.8)
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		Direct Ground
Survival/Rated Wind Velocity	km/h	200 (150 )
Wind Load @Rated Wind Front	N	821
Wind Load @Rated Wind Side	N	271
Wind Load @Rated Wind Rear	N	1066

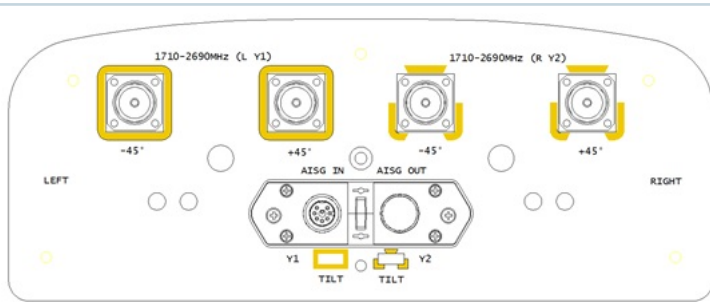
**ORDERING INFORMATION**

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVLL21B 43-C-I20	Internal RET(ACU-I20-B2)	APM50-B1	50-110 mm	32.1 Kg

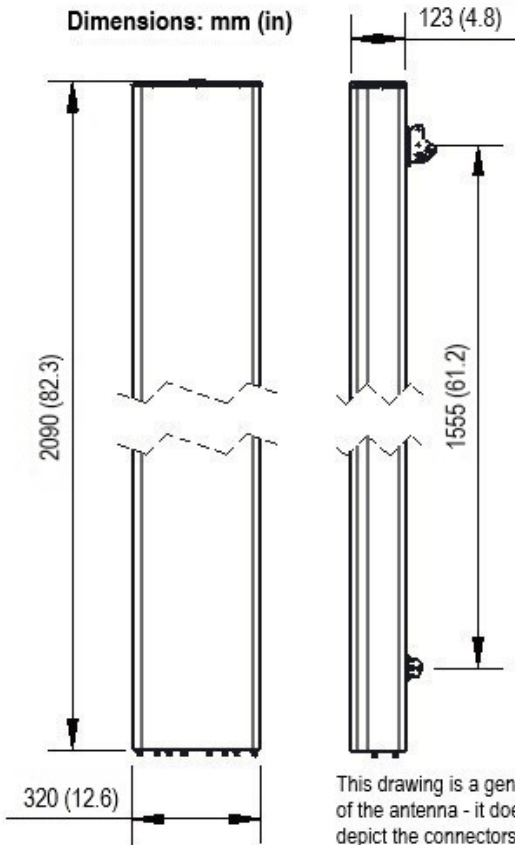


APXVLL21B\_43-C-I20

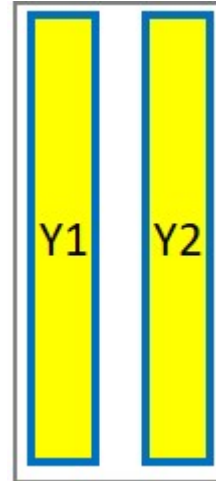
Wideband X-pol Antenna, 1710-2690/1710-2690 MHz, 65deg, 19.4/20 dBi, 2.1m, 2-10deg, Integrated RET



Dimensions: mm (in)



This drawing is a general representation of the antenna - it does NOT accurately depict the connectors or radome shape.



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](#)