

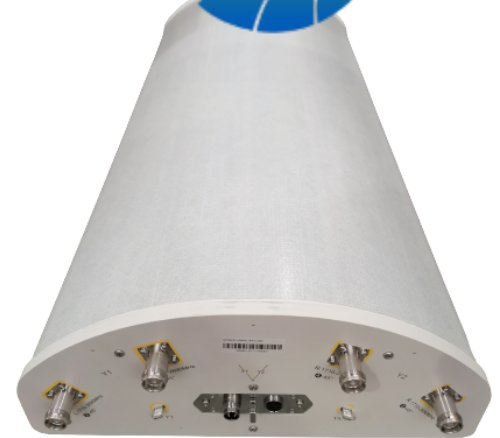
**APXV3LL09AS\_43-C-I20**

4-Ports, X-Pol, Twin Beam Antenna, 0.9m, 2x 1710-2690MHz, 33deg, Integrated RET



**FEATURES / BENEFITS**

- 4 ports / 2 cross pol systems 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		High Band Array (1710-2690 MHz) [Y1]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	17.6	17.9	18.4	18.6	19
Gain Over all Tilts	dBi	17.1 +/- 0.5	17.7 +/- 0.2	18 +/- 0.4	17.9 +/- 0.7	18.6 +/- 0.4
Azimuth Beamwidth 3dB	Deg	40.1 +/- 2.2	37.4 +/- 1.2	35.2 +/- 2.7	31.6 +/- 0.8	28.8 +/- 1.3
Elevation Beamwidth 3dB	Deg	11.9 +/- 0.7	11.1 +/- 0.3	10.5 +/- 0.7	9.3 +/- 0.2	8.4 +/- 0.5
Beam Center	Deg	±27				
F/B at +/-30deg Total Power	dB	22.9	24.1	24	22.1	22.3
First Upper Side Lobe Suppression	dB	19.7	21.1	21.6	21.1	18.3
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
Beam Isolation	dB	30				
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	17.5	17.8	18.3	18.5	19
Gain Over all Tilts	dBi	17.1 +/- 0.4	17.6 +/- 0.2	17.9 +/- 0.4	17.9 +/- 0.6	18.6 +/- 0.4
Azimuth Beamwidth 3dB	Deg	40 +/- 1.8	37.3 +/- 1.9	35.1 +/- 2.6	31.5 +/- 0.8	29.1 +/- 1.3
Elevation Beamwidth 3dB	Deg	12 +/- 0.7	11.1 +/- 0.4	10.5 +/- 0.8	9.3 +/- 0.2	8.3 +/- 0.5
Beam Center	Deg	±27				
F/B at +/-30deg Total Power	dB	22.6	23.1	23	21.4	21.8
First Upper Side Lobe Suppression	dB	20.6	21.8	20.6	20.6	17.3
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
Beam Isolation	dB	30				
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)	920 x 396 x 160 (36.2 x 15.6 x 6.3)
Weight (Antenna Only)	kg (lb)	16 (35.3)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	1242 x 520 x 294 (48.9 x 20.5 x 11.6)
Shipping Weight	kg (lb)	25.8 (56.9)
Connector type		4 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiberglass / Light Grey RAL7035

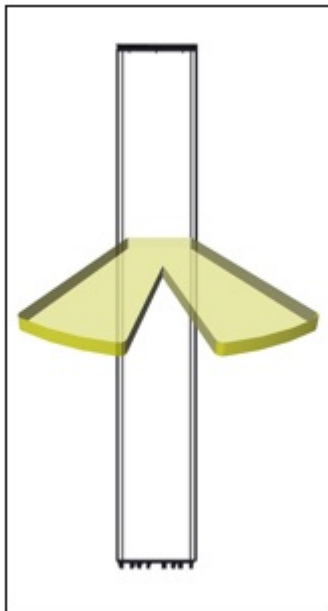
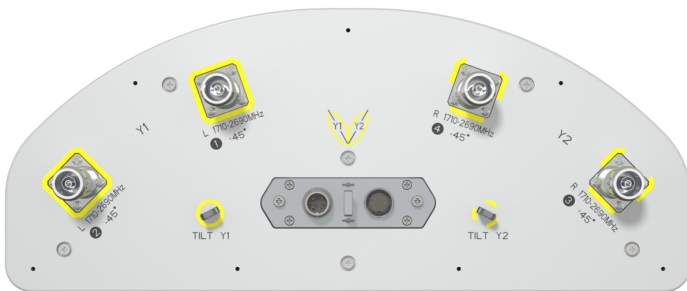
**TESTING AND ENVIRONMENTAL**

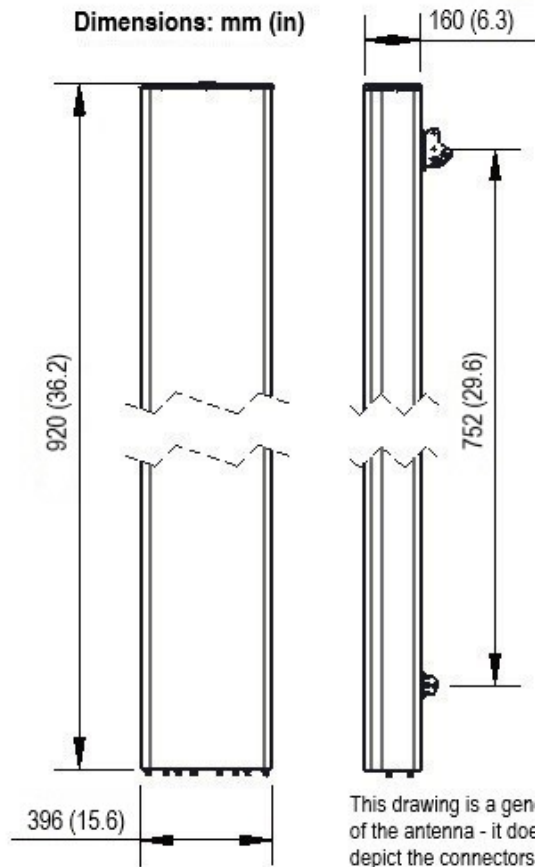
Temperature Range	°C (°F)	-40 to 60 (-40 to 140 )
Lightning protection		Direct Ground
Survival/Rated Wind Velocity	km/h	200 (150 )
Wind Load @Rated Wind Front	N	317
Wind Load @Rated Wind Side	N	159
Wind Load @Rated Wind Rear	N	444



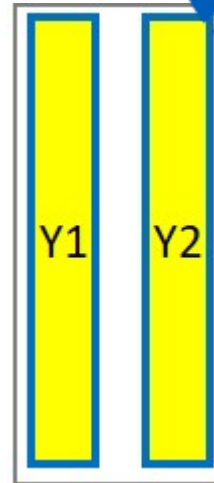
**ORDERING INFORMATION**

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXV3LL09AS_43-C-I20	Internal RET (ACU-I20-B2)	APM50-W3	50-115mm	25.8 Kg





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](#)