



FEATURES / BENEFITS

- Single beam antenna, 33deg
- 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	14.7	15	15.3	16	16.1
Gain Over all Tilts	dBi	14.4 +/- 0.3	14.8 +/- 0.2	15 +/- 0.3	15.5 +/- 0.5	15.6 +/- 0.5
Azimuth Beamwidth 3dB	Deg	35.5 +/- 1.5	33.6 +/- 0.8	32 +/- 1.9	28 +/- 0.7	26.9 +/- 0.9
Elevation Beamwidth 3dB	Deg	28.3 +/- 1.6	26.5 +/- 1.5	24.6 +/- 2.3	21 +/- 1.2	18.5 +/- 1.3
Cross Polar Discrimination at Boresight	dB	15.8	17	17.4	16.6	21.3
Cross Polar Discrimination over Sector	dB	10.9	8.3	7.8	3.5	3.2
F/B at +/-30deg Total Power	dB	24.4	23.6	21.9	20.5	19.4
First Upper Side Lobe Suppression	dB	14.9	14.3	12.9	12.4	11.2
Electrical Downtilt	Deg	2 to 11				
Cross Polar Isolation	dB	26				
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	14.8	15.2	15.5	16.1	16.2
Gain Over all Tilts	dBi	14.5 +/- 0.3	14.9 +/- 0.3	15.1 +/- 0.4	15.8 +/- 0.3	15.5 +/- 0.7
Azimuth Beamwidth 3dB	Deg	35.1 +/- 1.2	33.3 +/- 1	31.5 +/- 2.1	28 +/- 0.7	27.3 +/- 1.1
Elevation Beamwidth 3dB	Deg	28.7 +/- 1	27 +/- 1	25.4 +/- 1.9	20.8 +/- 1.1	19.5 +/- 1.6
Cross Polar Discrimination at Boresight	dB	19.5	20.6	21.2	22.1	22.2
Cross Polar Discrimination over Sector	dB	10.3	9.2	8.9	7	6.3
F/B at +/-30deg Total Power	dB	24.5	22.2	21.5	20.9	20.2
First Upper Side Lobe Suppression	dB	18.9	16.9	16.6	17.1	15.2
Electrical Downtilt	Deg	2 to 11				
Cross Polar Isolation	dB	26				
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)	750 x 320 x 123 (29.5 x 12.6 x 4.8)
Weight (Antenna Only)	kg (lb)	8.3 (18.3)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	1035 x 440 x 240 (40.7 x 17.3 x 9.4)
Shipping Weight	kg (lb)	16.4 (36.2)
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	295
Wind Load @Rated Wind Side	N	97
Wind Load @Rated Wind Rear	N	311

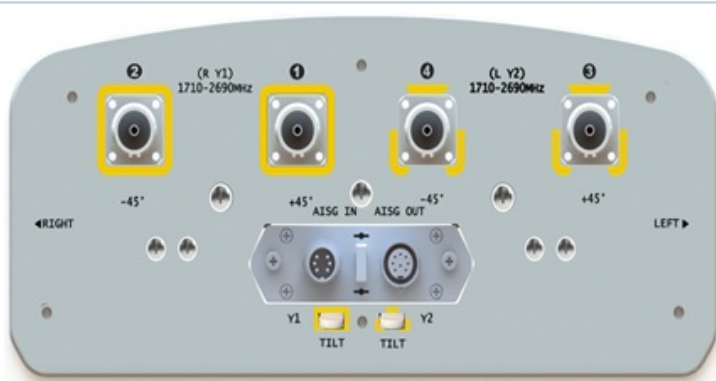
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXV3LL08B_43-C-I20	Internal RET(ACU-I20-B2)	APM50-B1	50-110mm	16.4 Kg

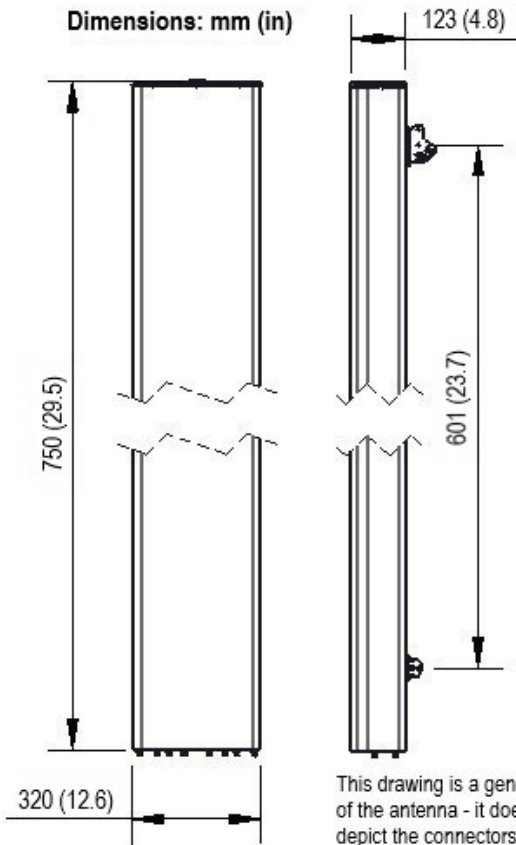


APXV3LL08B_43-C-120

4-Ports, X-Pol, Panel Antenna, 0.8m, 2x 1710-2690MHz, 33deg, 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](#)