



FEATURES / BENEFITS

- Twin beam antenna with 2ports 33deg + 2ports 33deg, main beam directions 60deg apart
- Each beam 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		High Band Array (1710-2690 MHz) [Y1]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	18.2	18.1	18.6	18.2	18.8
Gain Over all Tilts	dBi	17.6 +/- 0.6	17.9 +/- 0.2	18 +/- 0.6	17.8 +/- 0.4	18.4 +/- 0.4
Azimuth Beamwidth 3dB	Deg	39.9 +/- 2.2	37 +/- 1.6	34.7 +/- 2.8	31.7 +/- 1.3	28.8 +/- 1.3
Elevation Beamwidth 3dB	Deg	11.2 +/- 0.8	10.1 +/- 0.6	9.5 +/- 1.1	8.5 +/- 0.4	7.5 +/- 0.4
Beam Center	Deg	-28.3 +/- 1	-28.1 +/- 0.6	-27.9 +/- 0.9	-28 +/- 0.5	-28.2 +/- 0.6
F/B at +/-30deg Total Power	dB	20.8	19.9	20.1	19.8	20.3
First Upper Side Lobe Suppression	dB	19.2	19.7	20.6	19.7	18.2
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Beam 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	17.8	17.8	18.1	17.9	18.5
Gain Over all Tilts	dBi	17.4 +/- 0.4	17.5 +/- 0.3	17.5 +/- 0.6	17.5 +/- 0.4	18 +/- 0.5
Azimuth Beamwidth 3dB	Deg	40 +/- 2.3	36.9 +/- 1.6	34.9 +/- 2.3	31.6 +/- 1.1	28.8 +/- 1.3
Elevation Beamwidth 3dB	Deg	10.9 +/- 0.6	10.1 +/- 0.3	9.5 +/- 0.7	8.3 +/- 0.4	7.4 +/- 0.8
Beam Center	Deg	-28.8 +/- 1	-28.4 +/- 0.6	-28.2 +/- 0.8	-28.3 +/- 0.5	-28.3 +/- 0.5
F/B at +/-30deg Total Power	dB	21.5	20.1	19.2	20.6	20.8
First Upper Side Lobe Suppression	dB	17.6	17.7	18.5	18.4	16.8
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Beam 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) [Y3]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	17.8	17.8	18.1	17.9	18.6
Gain Over all Tilts	dBi	17.4 +/- 0.4	17.5 +/- 0.3	17.6 +/- 0.5	17.5 +/- 0.4	18 +/- 0.6
Azimuth Beamwidth 3dB	Deg	40.1 +/- 2.3	36.9 +/- 1.3	34.8 +/- 2.6	31.5 +/- 1.1	28.7 +/- 1.6
Elevation Beamwidth 3dB	Deg	11 +/- 0.6	10.1 +/- 0.3	9.5 +/- 0.7	8.3 +/- 0.5	7.4 +/- 0.8
Beam Center	Deg	27.3 +/- 0.6	27 +/- 0.5	26.7 +/- 0.8	26.7 +/- 0.5	27 +/- 0.6
F/B at +/-30deg Total Power	dB	21.8	20.5	20.2	21.8	21.4
First Upper Side Lobe Suppression	dB	18.6	18.8	18.9	21.2	18.1
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Beam 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) [Y4]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	18.3	18.3	18.9	18.4	19.2
Gain Over all Tilts	dBi	17.8 +/- 0.5	18.1 +/- 0.2	18.2 +/- 0.7	18.1 +/- 0.3	18.6 +/- 0.6
Azimuth Beamwidth 3dB	Deg	39.9 +/- 2.7	37 +/- 1.8	34.7 +/- 3.1	31.5 +/- 1.3	28.7 +/- 1.5
Elevation Beamwidth 3dB	Deg	11.2 +/- 0.8	10.1 +/- 0.6	9.5 +/- 1	8.5 +/- 0.3	7.5 +/- 0.4
Beam Center	dB	26.9 +/- 0.6	26.6 +/- 0.4	26.2 +/- 1.1	26.2 +/- 0.5	26.6 +/- 0.7
F/B at +/-30deg Total Power	dB	21.2	20.6	20.9	21.4	21.6
First Upper Side Lobe Suppression	dB	18.5	19.6	20.9	21	18.5
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Beam 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)	1900 x 396 x 160 (74.8 x 15.6 x 6.3)
Weight (Antenna Only)	kg (lb)	25 (55.1)
Weight (Mounting Hardware only)	kg (lb)	7 (15.4)
Packing size- HxWxD	mm (in)	2190 x 520 x 294 (86.2 x 20.5 x 11.6)
Shipping Weight	kg (lb)	37 (81.6)
Connector type		8 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiberglass / Light Grey RAL7035

TESTING AND ENVIRONMENTAL

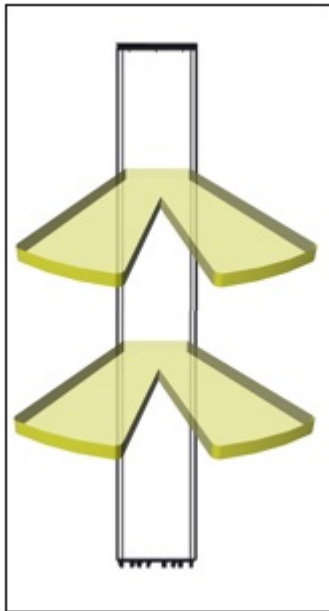
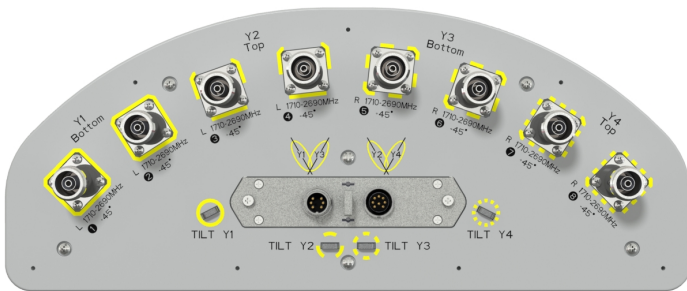
Temperature Range	°C (°F)	-40 to 60 (-40 to 149)
Lightning protection		Direct grounded
Survival/Rated Wind Velocity	km/h	200 (150)
Wind Load @Rated Wind Front	N	654
Wind Load @Rated Wind Side	N	327
Wind Load @Rated Wind Rear	N	918

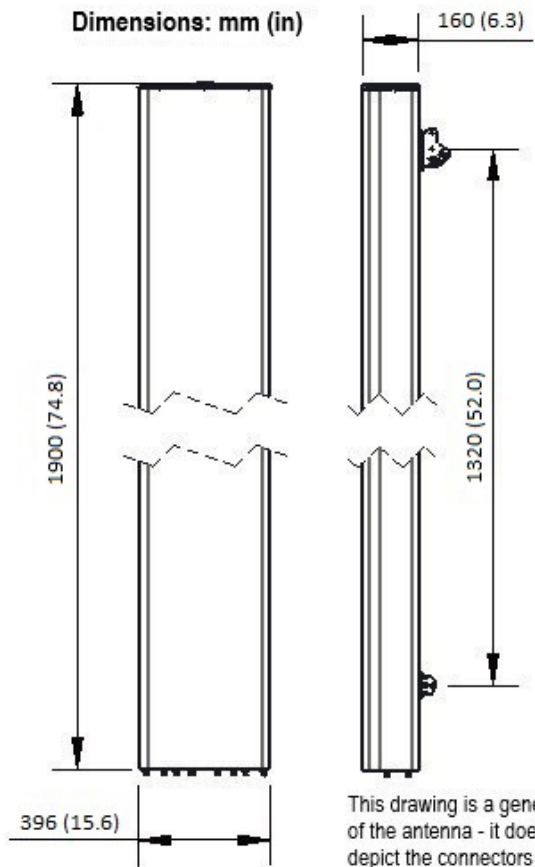
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting Pipe Diameter	Shipping Weight
APXV34L20AS_43-C-I20	Internal RET (ACU-I20-B4)	APM50-W5	50-115 mm	37.0 kg

APXV34L20AS_43-C-I20

8-Ports, X-Pol, Twin Beam Antenna, 2.0m, 4x 1710-2690MHz, 33deg, Integrated RET





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](#)