



**FEATURES / BENEFITS**

- 2 ports / 1 cross pol system in low band (694-960MHz)
- 4 ports / 2 cross pol systems in high band (1695-2690MHz)
- Supporting 4x4 MIMO in high band
- Integrated and field replaceable SRET
- ACU HW Version -HRLS200608H1.00
- Compliant with AISG V2.0 and 3GPP



**Technical features**

**ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		Low Band Array (694-960 MHz) [R1]		
Frequency Band	MHz	694 - 806	790 - 894	880 - 960
Gain Typical	dBi	15.8	16.5	16.2
Gain Over all Tilts	dBi	15.3 +/- 0.5	16 +/- 0.5	16 +/- 0.2
Azimuth Beamwidth 3dB	Deg	68 +/- 2	65.1 +/- 2.5	62.1 +/- 2.1
Elevation Beamwidth 3dB	Deg	11.3 +/- 1	10.1 +/- 0.5	9.3 +/- 0.5
Cross Polar Discrimination at Boresight	dB	28	29	28
Cross Polar Discrimination over Sector	dB	10	8	7
F/B at +/-30deg Total Power	dB	25	23	24
First Upper Side Lobe Suppression	dB	15	15	13
Electrical Downtilt	Deg	2 to 12		
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 Left Array (1695-2690 MHz) [Y1]				
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	16.7	17.3	18.1	17.9	17.9
Gain Over all Tilts	dBi	16.2 +/- 0.5	16.8 +/- 0.5	17.1 +/- 1	17.4 +/- 0.5	17.4 +/- 0.5
Azimuth Beamwidth 3dB	Deg	70.6 +/- 8.1	64.3 +/- 6.5	65.5 +/- 4.5	66.8 +/- 3.3	64.5 +/- 4.1
Elevation Beamwidth 3dB	Deg	6.4 +/- 0.5	6 +/- 0.1	5.6 +/- 0.5	5 +/- 0.1	4.9 +/- 0.5
Cross Polar Discrimination at Boresight	dB	25	24	21.8	25	26
Cross Polar Discrimination over Sector	dB	11	8	9	10.1	4
F/B at +/-30deg Total Power	dB	21	24	25	25	22
First Upper Side Lobe Suppression	dB	17	19	19	21	20
Electrical Downtilt	Deg	2 to 12				
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	200				

**ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		High Band Right Array (1695-2690 MHz) [Y2]				
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	16.9	17.3	18.3	18	17.9
Gain Over all Tilts	dBi	16.4 +/- 0.5	16.8 +/- 0.5	17.3 +/- 1	17.5 +/- 0.5	17.4 +/- 0.5
Azimuth Beamwidth 3dB	Deg	70.4 +/- 9	66.7 +/- 8.9	65.4 +/- 5.5	65.7 +/- 3	62.5 +/- 4
Elevation Beamwidth 3dB	Deg	6.2 +/- 0.5	5.8 +/- 0.5	5.5 +/- 0.5	5 +/- 0.1	4.9 +/- 0.5
Cross Polar Discrimination at Boresight	dB	25	25	25.9	27.3	25
Cross Polar Discrimination over Sector	dB	12	8	9	11	3
F/B at +/-30deg Total Power	dB	22	25	26	24	21
First Upper Side Lobe Suppression	dB	17	20	19	20	17.5
Electrical Downtilt	Deg	2 to 12				
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	200				



**ELECTRICAL SPECIFICATIONS**

Impedance	Ohm	50
Polarization	Deg	±45°

**MECHANICAL SPECIFICATIONS**

Dimensions - H x W x D	mm (in)	1998 x 378 x 158 (78.6 x 14.9 x 6.2)
Weight (Antenna Only)	kg (lb)	22 (48.5)
Weight (Mounting Hardware only)	kg (lb)	4 (8.8)
Packing size- HxWxD	mm (in)	2178 x 473 x 278 (85.7 x 18.6 x 10.9)
Shipping Weight	kg (lb)	31.7 (69.9)
Connector type		6x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiberglass / Light Grey RAL7035

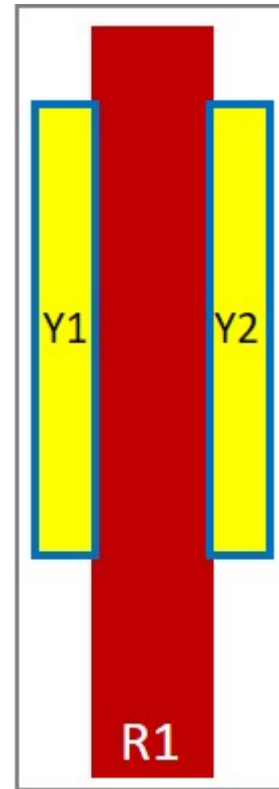
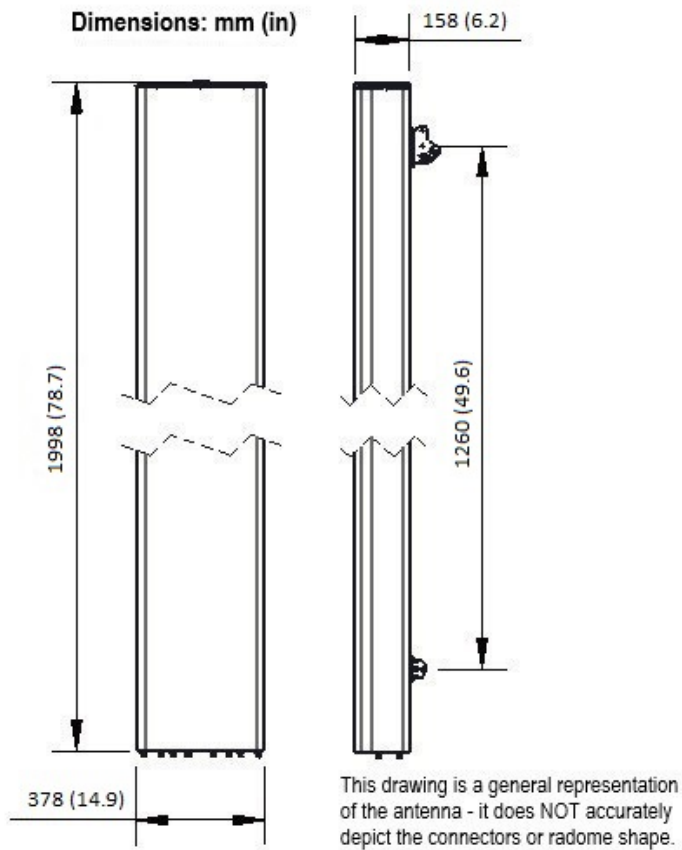
**TESTING AND ENVIRONMENTAL**

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	493
Wind Load @Rated Wind Side	N	441
Wind Load @Rated Wind Rear	N	571

**ORDERING INFORMATION**

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVBLL20H_43-C-I20	Internal RET(ACU-I20-H12I)	APM50-H1	50-125mm	31.7 kg





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](#)