



**FEATURES / BENEFITS**

- 4 ports / 2 cross pol systems in low band (690-960MHz)
- 4 ports / 2 cross pol systems in high band (1695-2690MHz)
- Supports 4x4 MIMO in low band and high band
- Integrated and field replaceable SRET
- ACU HW Version -HRLS170901H1.00
- Compliant with AISG V2.0 and 3GPP



**Technical features**

**ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		LOW BAND ARRAY (690-960 MHz) [R1]		
Frequency Band	MHz	690 - 806	790 - 894	880 - 960
Gain Typical	dBi	16.1	16.8	17.1
Gain Over all Tilts	dBi	16 +/- 0.1	16.3 +/- 0.5	16.6 +/- 0.5
Azimuth Beamwidth 3dB	Deg	67.1 +/- 5.5	63.4 +/- 3	63.1 +/- 4.2
Elevation Beamwidth 3dB	Deg	8.9 +/- 0.5	8.2 +/- 0.5	7.4 +/- 0.5
Cross Polar Discrimination at Boresight	dB	26	29	29
Cross Polar Discrimination over Sector	dB	14	13	12.7
F/B at +/-30deg Total Power	dB	22	23	24
First Upper Side Lobe Suppression	dB	15	16	18
Electrical Downtilt	Deg	2 to 12		
Cross Polar Isolation	dB	26		
Interband Isolation	dB	26		
VSWR	-	1.5		
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153		
Maximum Effective Power per Port	Watt	250		



**ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		LOW BAND ARRAY (690-960 MHz) [R2]		
Frequency Band	MHz	690 - 806	790 - 894	880 - 960
Gain Typical	dBi	16.4	16.7	17
Gain Over all Tilts	dBi	15.9 +/- 0.5	16.2 +/- 0.5	16.5 +/- 0.5
Azimuth Beamwidth 3dB	Deg	65.9 +/- 6.4	62.2 +/- 3.4	61.8 +/- 4.5
Elevation Beamwidth 3dB	Deg	8.8 +/- 0.5	8 +/- 0.1	7.4 +/- 0.5
Cross Polar Discrimination at Boresight	dB	27	29	29
Cross Polar Discrimination over Sector	dB	14	12	12
F/B at +/-30deg Total Power	dB	22	23	24
First Upper Side Lobe Suppression	dB	15	16	18
Electrical Downtilt	Deg	2 to 12		
Cross Polar Isolation	dB	26		
Interband Isolation	dB	26		
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 (1695-2690 MHz) [Y1]				
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	16.2	17.2	18.2	17.7	17.8
Gain Over all Tilts	dBi	15.7 +/- 0.5	16.7 +/- 0.5	17.2 +/- 1	17.2 +/- 0.5	17.3 +/- 0.5
Azimuth Beamwidth 3dB	Deg	71.5 +/- 3.5	67.3 +/- 6.5	62.4 +/- 7.5	51.5 +/- 2.5	54.1 +/- 3.5
Elevation Beamwidth 3dB	Deg	7.5 +/- 0.5	6.8 +/- 0.5	6.4 +/- 0.5	5.6 +/- 0.5	5 +/- 0.1
Cross Polar Discrimination at Boresight	dB	21	21	19	15	17
Cross Polar Discrimination over Sector	dB	5	8	5	2	1
F/B at +/-30deg Total Power	dB	25.4	25	25	27	26
First Upper Side Lobe Suppression	dB	14	15	15	18	21
Electrical Downtilt	Deg	2 to 12				
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 (1695-2690 MHz) [Y2]				
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	16.4	17.5	18.2	17.8	17.7
Gain Over all Tilts	dBi	15.9 +/- 0.5	16.6 +/- 0.9	17.2 +/- 1	17.3 +/- 0.5	17.2 +/- 0.5
Azimuth Beamwidth 3dB	Deg	71.2 +/- 4.9	66.1 +/- 5.6	62.2 +/- 6	51.3 +/- 3.3	54.5 +/- 4.4
Elevation Beamwidth 3dB	Deg	7.5 +/- 0.5	6.9 +/- 0.5	6.4 +/- 0.5	5.7 +/- 0.5	5 +/- 0.1
Cross Polar Discrimination at Boresight	dB	22	20	18	16	17
Cross Polar Discrimination over Sector	dB	6	8	5	2	1
F/B at +/-30deg Total Power	dB	25	25	26	26.2	25
First Upper Side Lobe Suppression	dB	16	16.4	17	19	22
Electrical Downtilt	Deg	2 to 12				
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)	2498 x 468 x 168 (98.3 x 18.4 x 6.6)
Weight (Antenna Only)	kg (lb)	34 (75)
Weight (Mounting Hardware only)	kg (lb)	9 (19.8)
Packing size- HxWxD	mm (in)	2698 x 563 x 288 (106.2 x 22.2 x 11.3)
Shipping Weight	kg (lb)	46.5 (102.5)
Connector type		8 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiber Glass / 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	1207
Wind Load @Rated Wind Side	N	372
Wind Load @Rated Wind Rear	N	1533

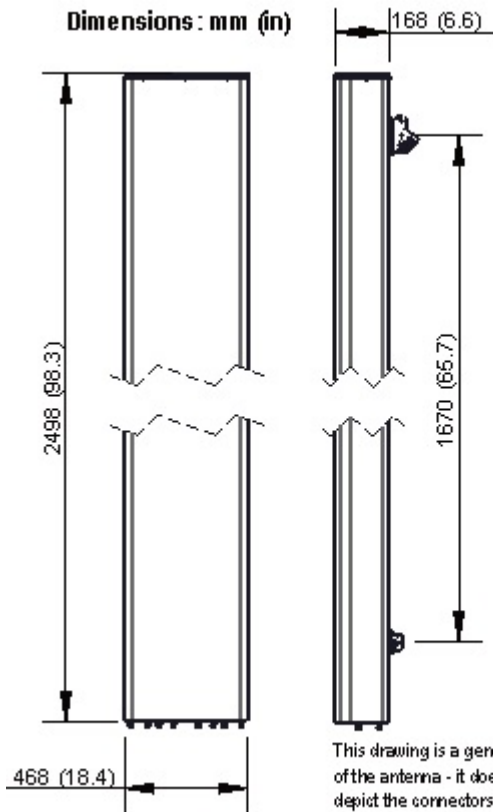
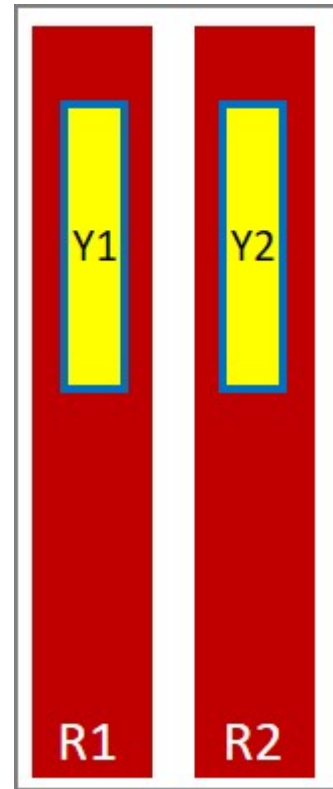
**ORDERING INFORMATION**

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
<b>APXVBLL26H_43-C-I20</b>	Internal RET(ACU-I20-H12B)	APM50-HS	50-125mm	46.5 Kg



APXVBBLL26H\_43-C-I20

8-Ports, X-Pol, Panel Antenna, 2.6m, 2x 690-960/2x 1695-2690MHz, 65deg, Integrated RET





**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](#)