



FEATURES / BENEFITS

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



Technical features

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	17.2	17.7	18.3	18.4	19
Gain Over all Tilts	dBi	16.7 +/- 0.5	17.2 +/- 0.5	17.8 +/- 0.5	17.9 +/- 0.5	18 +/- 1
Azimuth Beamwidth 3dB	Deg	66.6 +/- 2.1	64.5 +/- 1.5	63.9 +/- 2	64 +/- 2	57.1 +/- 2.5
Elevation Beamwidth 3dB	Deg	7.1 +/- 0.5	6.8 +/- 0.5	6.2 +/- 0.5	5.5 +/- 0.5	5.1 +/- 0.1
Cross Polar Discrimination at Boresight	dB	26	25.3	24	29	25
Cross Polar Discrimination over Sector	dB	11	13	14	9	7
F/B at +/-30deg Total Power	dB	26	28	28	28	29
First Upper Side Lobe Suppression	dB	20	21	21	19.5	19
Electrical Downtilt	Deg	0 to 10				
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 Array (1695-2690 MHz) [Y2]				
Frequency Band	MHz	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	17.3	17.8	18.3	18.1	18.4
Gain Over all Tilts	dBi	16.8 +/- 0.5	17.3 +/- 0.5	17.8 +/- 0.5	18 +/- 0.1	17.9 +/- 0.5
Azimuth Beamwidth 3dB	Deg	66.4 +/- 3	64.1 +/- 2	63.6 +/- 2	63.5 +/- 1.5	57.9 +/- 3
Elevation Beamwidth 3dB	Deg	7.2 +/- 0.5	6.8 +/- 0.5	6.1 +/- 0.5	5.5 +/- 0.5	5 +/- 0.1
Cross Polar Discrimination at Boresight	dB	24.5	26	25	27.4	26
Cross Polar Discrimination over Sector	dB	11	12	15	9.9	8
F/B at +/-30deg Total Power	dB	26	29	29.9	28	27
First Upper Side Lobe Suppression	dB	20	20.8	20	18.4	18
Electrical Downtilt	Deg	0 to 10				
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

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	1378 x 258 x 88 (54.3 x 10.2 x 3.5)
Weight (Antenna Only)	kg (lb)	10.4 (22.9)
Weight (Mounting Hardware only)	kg (lb)	3 (6.6)
Packing size- HxWxD	mm (in)	1558 x 353 x 208 (61.3 x 13.9 x 8.2)
Shipping Weight	kg (lb)	16.3 (35.9)
Connector type		4 x 7/16 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		UPVC / 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	435
Wind Load @Rated Wind Side	N	112
Wind Load @Rated Wind Rear	N	264

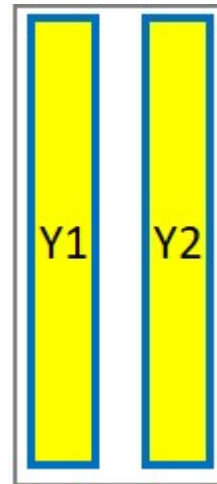
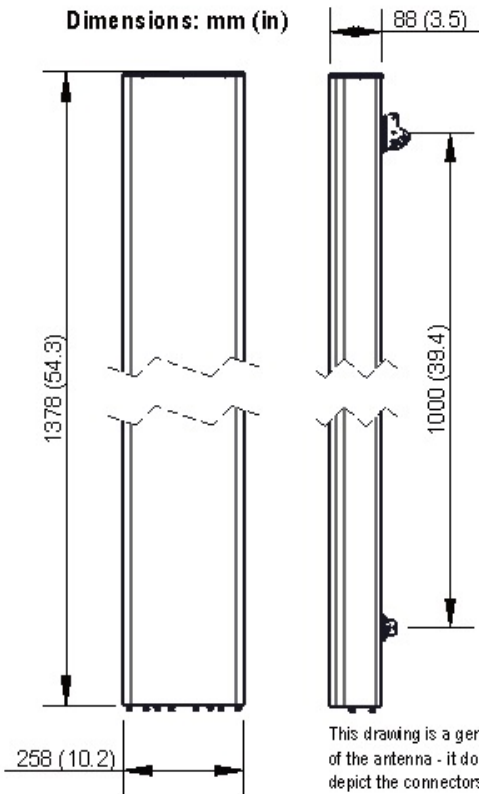
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVLL14H-C-I20	Internal RET (ACU-I20-H12A)	APM50-H1	50-125mm	16.3 Kg



APXVLL14H-C-I20

4-Ports, X-Pol, Panel Antenna, 1.4m, 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](#)