



FEATURES / BENEFITS

12-port Multiband highly flexible platform for advanced use both in low and high band.

- 4 ports / 2 systems in low band ultra-wide band
- 8 ports / 4 systems in high band ultra-wide band
- Integrated RET platform
- SRET -Field replaceable
- ACU HW Version -HRLS170901H1.00



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	16.6	16.7	16.8
Gain Over all Tilts	dBi	15.9 +/- 0.7	16.4 +/- 0.3	16.4 +/- 0.4
Azimuth Beamwidth 3dB	Deg	69.6 +/- 6.5	63.7 +/- 3.2	63.1 +/- 5.4
Elevation Beamwidth 3dB	Deg	8.9 +/- .7	8 +/- .4	7.4 +/- .5
Cross Polar Discrimination at Boresight	dB	16.4	21.3	21.1
Cross Polar Discrimination over Sector	dB	10.2	11.5	9.7
F/B at +/-30deg Total Power	dB	20.2	22.1	22.4
First Upper Side Lobe Suppression	dB	16.7	16.9	17.3
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	16.6	16.8	16.9
Gain Over all Tilts	dBi	16 +/- 0.6	16.5 +/- 0.3	16.6 +/- 0.3
Azimuth Beamwidth 3dB	Deg	68.7 +/- 7.6	62.1 +/- 3.3	60.4 +/- 4.3
Elevation Beamwidth 3dB	Deg	8.7 +/- .7	7.9 +/- .4	7.2 +/- .5
Cross Polar Discrimination at Boresight	dB	16.6	21.6	21.7
Cross Polar Discrimination over Sector	dB	10	11.4	9.7
F/B at +/-30deg Total Power	dB	20.4	22.5	22.8
First Upper Side Lobe Suppression	dB	14.7	16.2	15.5
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	17.7	18.2	19.4	18.7	18.2
Gain Over all Tilts	dBi	17 +/- 0.7	17.7 +/- 0.5	18.5 +/- 0.9	18.2 +/- 0.5	17.7 +/- 0.5
Azimuth Beamwidth 3dB	Deg	63.2 +/- 6.7	61.5 +/- 7.1	58.4 +/- 5.4	53.7 +/- 4.5	57.1 +/- 5.2
Elevation Beamwidth 3dB	Deg	5.4 +/- .5	5 +/- .3	4.6 +/- .4	4.1 +/- .2	3.9 +/- .2
Cross Polar Discrimination at Boresight	dB	19.6	23.7	20.2	15.4	18.9
Cross Polar Discrimination over Sector	dB	4.7	9.4	4.7	0.8	1.9
F/B at +/-30deg Total Power	dB	26.7	26.4	26	26.2	25.4
First Upper Side Lobe Suppression	dB	18.8	18.7	18.9	19	17.1
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;	dBc	-153				
Maximum Effective Power per Port	Watt	200				



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	16.8	17.1	18.5	18.4	18.6
Gain Over all Tilts	dBi	16.2 +/- 0.6	16.6 +/- 0.5	17.5 +/- 1	18 +/- 0.4	17.8 +/- 0.8
Azimuth Beamwidth 3dB	Deg	66.5 +/- 6.9	67.1 +/- 3.4	65.3 +/- 5.8	58.7 +/- 4.3	59.7 +/- 7.6
Elevation Beamwidth 3dB	Deg	6.7 +/- .5	6.2 +/- .4	5.8 +/- .6	5.2 +/- .3	4.7 +/- .3
Cross Polar Discrimination at Boresight	dB	23.1	29.6	24.6	20.7	18.9
Cross Polar Discrimination over Sector	dB	12.7	12.7	8.7	6.5	4
F/B at +/-30deg Total Power	dB	25.3	24.9	26.4	29	28.1
First Upper Side Lobe Suppression	dB	14.9	16.6	17.7	20.1	15.3
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	200				

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Array (1695-2690 MHz) [Y3]				
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	17.7	18.3	19.4	18.7	18.3
Gain Over all Tilts	dBi	17 +/- 0.7	17.7 +/- 0.6	18.5 +/- 0.9	18.2 +/- 0.5	17.7 +/- 0.6
Azimuth Beamwidth 3dB	Deg	62.2 +/- 6.6	60.9 +/- 6.4	58.5 +/- 5.5	53.5 +/- 3.7	56.6 +/- 4.6
Elevation Beamwidth 3dB	Deg	5.4 +/- .5	4.9 +/- .3	4.5 +/- .3	4.1 +/- .2	3.9 +/- .2
Cross Polar Discrimination at Boresight	dB	19.3	20.5	20.9	16.5	23
Cross Polar Discrimination over Sector	dB	5.2	9.8	5.3	1.1	2.5
F/B at +/-30deg Total Power	dB	26.6	27.2	25.9	26	26.4
First Upper Side Lobe Suppression	dB	18.4	18.4	18.4	19.6	17.6
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	200				



ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Array (1695-2690 MHz) [Y4]				
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	16.3	16.5	17.7	17.4	17.3
Gain Over all Tilts	dBi	15.9 +/- 0.4	16.1 +/- 0.4	16.9 +/- 0.8	17.2 +/- 0.2	16.8 +/- 0.5
Azimuth Beamwidth 3dB	Deg	63.4 +/- 6.1	67.2 +/- 2.2	63.8 +/- 4.2	62.1 +/- 2	66.9 +/- 2.9
Elevation Beamwidth 3dB	Deg	6.8 +/- .5	6.3 +/- .5	5.8 +/- .4	5.1 +/- .3	4.9 +/- .2
Cross Polar Discrimination at Boresight	dB	17.9	17.1	17.2	18.6	14.6
Cross Polar Discrimination over Sector	dB	13.1	12.3	8.1	7.2	4.3
F/B at +/-30deg Total Power	dB	27.7	25.5	25.3	27.2	26.5
First Upper Side Lobe Suppression	dB	17.3	19.6	16.8	20.7	14
Electrical Downtilt	Deg	0 to 10				
Cross Polar Isolation	dB	26				
Interband Isolation	dB	28				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm);dBc;-153;	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)	2750 x 468 x 168 (108.3 x 18.4 x 6.6)
Weight (Antenna Only)	kg (lb)	45.6 (100.5)
Weight (Mounting Hardware only)	kg (lb)	9 (19.8)
Packing size- HxWxD	mm (in)	3070 x 583 x 298 (120.9 x 23 x 11.7)
Shipping Weight	kg (lb)	61 (134.5)
Connector type		12 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	1185
Wind Load @Rated Wind Side	N	525
Wind Load @Rated Wind Rear	N	1325

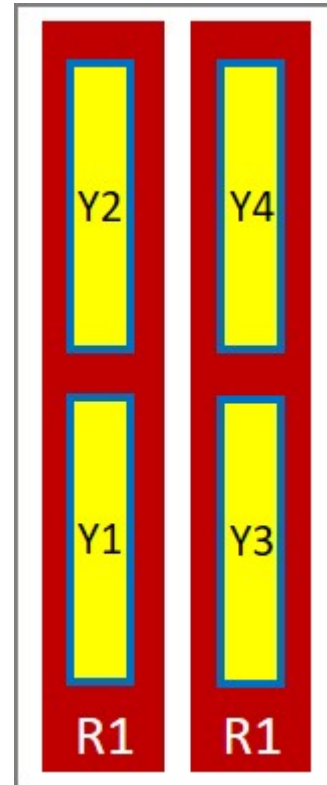
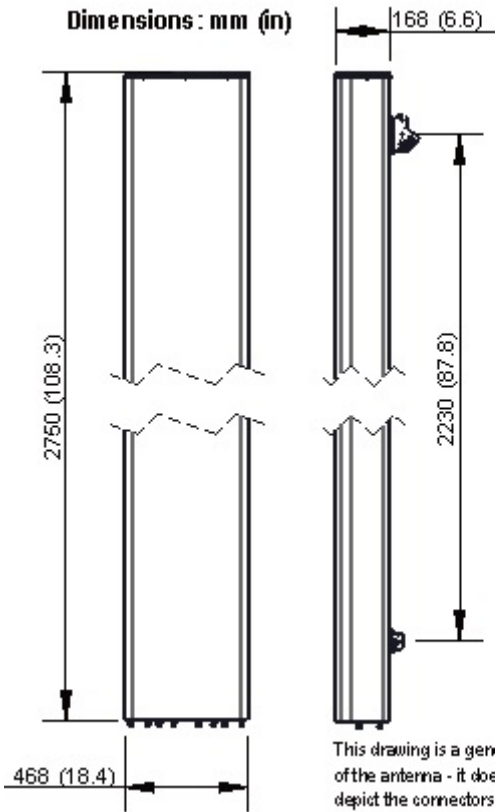
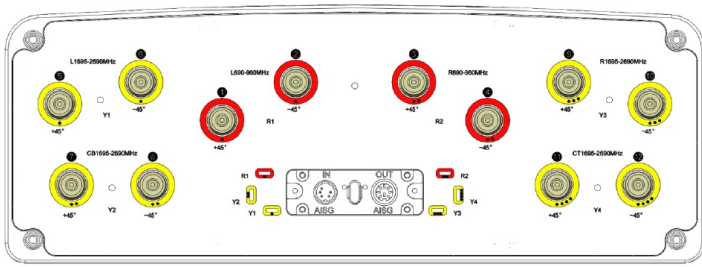
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting Pipe Diameter	Shipping Weight
APXVBB4L26H3_43-C-I20	Internal RET(ACU-I20-H12B)	APM50-HS	50-125mm	61.0 kg



APXVBB4L26H3_43-C-I20

12-Ports, X-Pol, Panel Antenna, 2.6m, 2x 690-960/4x 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](#)