

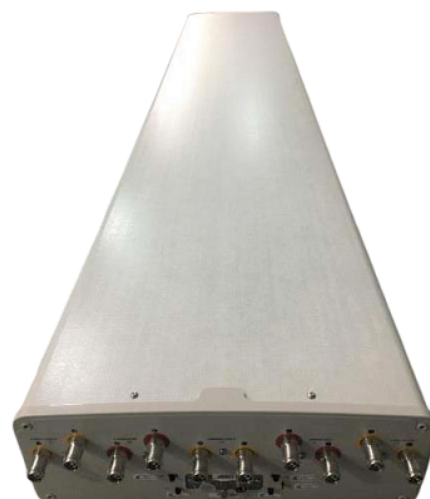


APXVBB3L15H_43-C-I20

10-port X-Pol Antenna, 1.5m, 690-960/690-960/1695-2690/1695-2690/1695-2690MHz, 65deg, 14.8/15.0/17.5/18.1/17.5dBi, 2-12deg, Integrated RET

FEATURES / BENEFITS

- 4 ports / 2 cross pol systems in low band (690-960MHz)
- 6 ports / 3 cross pol systems in high band (1695-2690MHz)
- Integrated and field replaceable SRET
- ACU HW Version -HRLS170901H1.00 / SW Version -SRLS190802V1.22
- 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	14.1	14.4	14.8
Gain Over all Tilts	dBi	13.4 +/- 0.7	14.1 +/- 0.3	14.4 +/- 0.4
Azimuth Beamwidth 3dB	Deg	65.1 +/- 4.3	57.7 +/- 4.9	56.6 +/- 6
Elevation Beamwidth 3dB	Deg	15.9 +/- 1.5	13.8 +/- 0.9	12.5 +/- 0.9
Cross Polar Discrimination at Boresight	dB	17.2	20.1	22.9
Cross Polar Discrimination over Sector	dB	9.9	10.3	8.7
F/B at +/-30deg Total Power	dB	19.6	21.7	22.9
First Upper Side Lobe Suppression	dB	16.2	19.3	19.2
Electrical Downtilt	Deg	2 to 12		
Cross Polar Isolation	dB	25		
Interband Isolation	dB	25		
VSWR	-	1.5		
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153		
Maximum Effective Power per Port	Watt	250		



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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		Low Band Array (690-960 MHz) [R2]		
Frequency Band	MHz	690-806	790-894	880-960
Gain Typical	dBi	14.2	14.5	15
Gain Over all Tilts	dBi	13.6 +/- 0.6	14.2 +/- 0.3	14.6 +/- 0.4
Azimuth Beamwidth 3dB	Deg	64.3 +/- 6.8	57.5 +/- 3.8	56.2 +/- 4.5
Elevation Beamwidth 3dB	Deg	15.5 +/- 1.4	13.5 +/- 0.7	12.2 +/- 0.9
Cross Polar Discrimination at Boresight	dB	18.1	22	23.9
Cross Polar Discrimination over Sector	dB	9.7	9.4	8
F/B at +/-30deg Total Power	dB	18.5	21.7	23.3
First Upper Side Lobe Suppression	dB	14.5	16.9	17.1
Electrical Downtilt	Deg	2 to 12		
Cross Polar Isolation	dB	25		
Interband Isolation	dB	25		
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	16.3	16.8	17.5	17.4	17.4
Gain Over all Tilts	dBi	15.7 +/- 0.6	16.3 +/- 0.5	16.9 +/- 0.6	16.8 +/- 0.6	16.8 +/- 0.6
Azimuth Beamwidth 3dB	Deg	66.3 +/- 6.4	61.5 +/- 4	58.7 +/- 4.1	57.5 +/- 3.6	55.8 +/- 3.9
Elevation Beamwidth 3dB	Deg	7.5 +/- 0.5	6.8 +/- 0.4	6.1 +/- 0.4	5.4 +/- 0.3	4.9 +/- 0.2
Cross Polar Discrimination at Boresight	dB	21.9	22.5	22.1	21.2	22.8
Cross Polar Discrimination over Sector	dB	7.8	6	5	2.2	1.7
F/B at +/-30deg Total Power	dB	23.6	23.8	24.6	25	25.1
First Upper Side Lobe Suppression	dB	20.5	19.2	15.1	12.3	13.6
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				



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10-port X-Pol Antenna, 1.5m, 690-960/690-960/1695-2690/1695-2690/1695-2690MHz, 65deg, 14.8/15.0/17.5/18.1/17.5dBi, 2-12deg, Integrated RET

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	16.9	17.1	17.4	17.9	18.1
Gain Over all Tilts	dBi	16.4 +/- 0.5	16.5 +/- 0.6	16.7 +/- 0.7	17.4 +/- 0.5	17.3 +/- 0.8
Azimuth Beamwidth 3dB	Deg	63.6 +/- 6.6	67.3 +/- 3.2	65.8 +/- 3.2	59.5 +/- 3	61.1 +/- 3.5
Elevation Beamwidth 3dB	Deg	6.7 +/- 0.3	6.3 +/- 0.4	5.8 +/- 0.3	5.1 +/- 0.2	4.8 +/- 0.3
Cross Polar Discrimination at Boresight	dB	19.5	19.9	18	19.2	14.6
Cross Polar Discrimination over Sector	dB	14.3	14.6	12.6	7.9	4.8
F/B at +/-30deg Total Power	dB	25.5	28.2	26.6	29.2	26.8
First Upper Side Lobe Suppression	dB	16.5	15.6	16.8	16.5	16.7
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	16.2	17	17.5	17.5	17.3
Gain Over all Tilts	dBi	15.8 +/- 0.4	16.4 +/- 0.6	16.9 +/- 0.6	16.9 +/- 0.6	16.6 +/- 0.7
Azimuth Beamwidth 3dB	Deg	63.9 +/- 7	60.8 +/- 5	58.4 +/- 4.9	55.1 +/- 2.8	57.8 +/- 5.2
Elevation Beamwidth 3dB	Deg	7.4 +/- 0.5	6.8 +/- 0.5	6.1 +/- 0.4	5.5 +/- 0.2	4.9 +/- 0.3
Cross Polar Discrimination at Boresight	dB	18.1	17.2	17.2	18.2	20.3
Cross Polar Discrimination over Sector	dB	7.5	5.7	5	1.1	1.5
F/B at +/-30deg Total Power	dB	22.3	23.8	22.7	24.4	24.8
First Upper Side Lobe Suppression	dB	21.8	19.3	17.5	15.5	15.7
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				



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ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

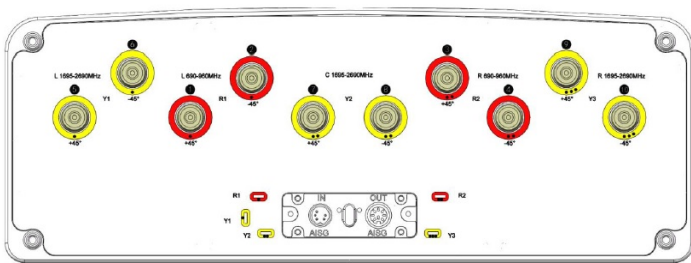
Dimensions - H x W x D	mm (in)	1498 x 468 x 168 (59 x 18.4 x 6.6)
Weight (Antenna Only)	kg (lb)	24.5 (54)
Weight (Mounting Hardware only)	kg (lb)	5.5 (12.1)
Packing size- HxWxD	mm (in)	1698 x 563 x 288 (66.9 x 22.2 x 11.3)
Shipping Weight	kg (lb)	36 (79.4)
Connector type		10 x 4.3-10 female/bottom + 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	645
Wind Load @Rated Wind Side	N	285
Wind Load @Rated Wind Rear	N	720

ORDERING INFORMATION

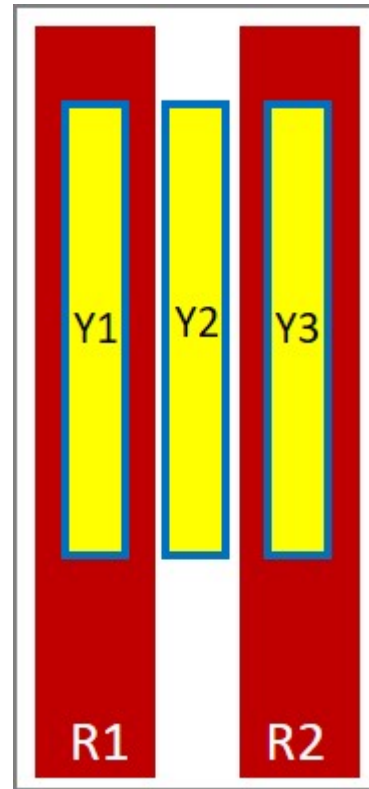
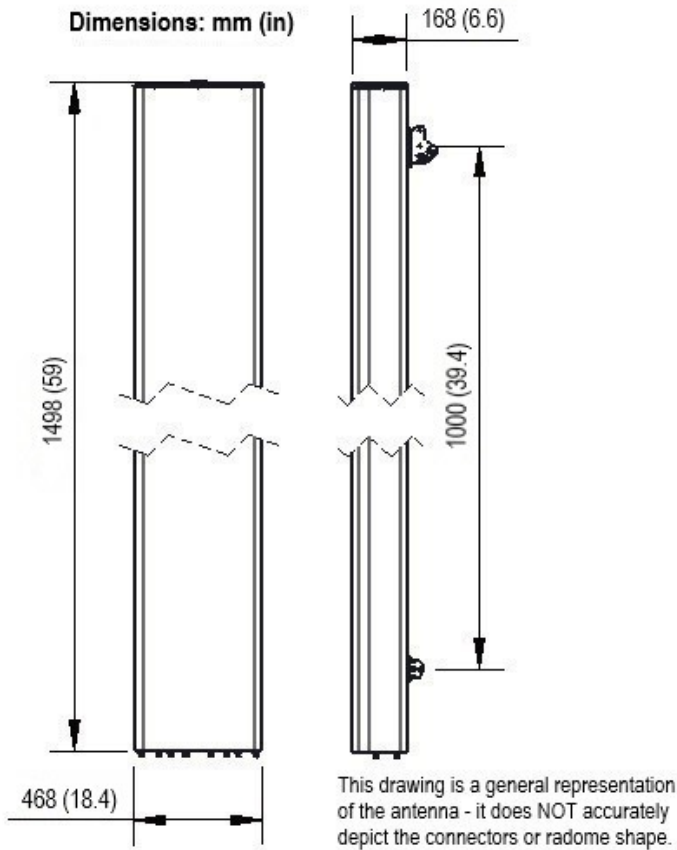
Order No.	Configuration	Mounting Hardware	Mounting Pipe Diameter	Shipping Weight
APXVBB3L15H_43-C-I20	Internal RET (ACU-I20-H12B)	APM50-H2	50-125mm	36.0 kg





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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](#)