



APXVB34L26AB_43-C-I20

10-Ports, X-Pol, Hybrid Beam Antenna, 2.6m, 1x 698-960MHz, 65deg, 4x 1710-2690MHz, 33deg, Integrated RET, Site Sharing Optional

FEATURES / BENEFITS

- Hybrid twin beam antenna
- 2 ports / 1 cross pol system in low band (698-960MHz), 65deg
- 4 ports + 4 ports, each 33deg. beam based on 2 cross pol systems (1710-2690 MHz), separated by 60deg
- Integrated and field replaceable SRET
- ACU HW Version: 2.02
- Compliant with AISG V2.0 and 3GPP



Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		LOW BAND ARRAY (698-960 MHz) [R1]		
Frequency Band	MHz	698-806	790-894	880-960
Gain Typical	dBi	16.8	17.1	17
Gain Over all Tilts	dBi	15.8 +/- 1	16.3 +/- 0.8	16.4 +/- 0.6
Azimuth Beamwidth 3dB	Deg	68.4 +/- 2.2	64.6 +/- 3.7	62.3 +/- 1.9
Elevation Beamwidth 3dB	Deg	8.8 +/- 0.9	7.8 +/- 0.8	7 +/- 0.4
Cross Polar Discrimination at Boresight	dB	18.8	20.3	21.9
Cross Polar Discrimination over Sector	dB	5	2.5	5.3
F/B at +/-30deg Total Power	dB	19.5	19.5	20.4
First Upper Side Lobe Suppression	dB	18.5	13.7	14.8
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	350		



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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1710-2690 MHZ) [Y1]				
Frequency Band	MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	18	18.5	19.2	19.3	18.7
Gain Over all Tilts	dBi	17.3 +/- 0.7	18.1 +/- 0.4	18.5 +/- 0.7	18.5 +/- 0.8	18.1 +/- 0.6
Azimuth Beamwidth 3dB	Deg	32.7 +/- 2.6	30.4 +/- 2	28.7 +/- 2.9	24.1 +/- 1.2	23.2 +/- 2.3
Elevation Beamwidth 3dB	Deg	7.9 +/- 0.6	7.3 +/- 0.3	6.9 +/- 0.6	6 +/- 0.4	5.6 +/- 0.3
Beam Center	Deg	+/-30	+/-28	+/-25	+/-24	+/-23
F/B at +/-30deg Total Power	dB	21	23	23.8	21.5	21.5
First Upper Side Lobe Suppression	dB	14.5	16.2	16.3	16.3	17.3
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	26				
Interband Isolation	dB	26				
Beam Isolation	dB	13				
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 (1710-2690 MHZ) [Y2]				
Frequency Band	MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	17.6	18.1	19.1	19.1	18.8
Gain Over all Tilts	dBi	16.9 +/- 0.7	17.7 +/- 0.4	18.2 +/- 0.9	18.2 +/- 0.9	18.2 +/- 0.6
Azimuth Beamwidth 3dB	Deg	32.9 +/- 3.2	30.5 +/- 1.8	28.9 +/- 2.9	24.9 +/- 2.2	23.3 +/- 1.3
Elevation Beamwidth 3dB	Deg	8.1 +/- 0.7	7.5 +/- 0.3	7 +/- 0.7	6.1 +/- 0.3	5.6 +/- 0.3
Beam Center	Deg	+/-30	+/-28	+/-25	+/-24	+/-23
F/B at +/-30deg Total Power	dB	22.3	22.3	23.4	21.6	21.4
First Upper Side Lobe Suppression	dB	17	18.6	18.1	17.4	17.5
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	26				
Interband Isolation	dB	26				
Beam Isolation	dB	13				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153				
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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1710-2690 MHZ) [Y3]				
Frequency Band	MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	18	18.5	19.4	19.7	18.9
Gain Over all Tilts	dBi	17.5 +/- 0.5	18.1 +/- 0.4	18.6 +/- 0.8	19 +/- 0.7	18.3 +/- 0.6
Azimuth Beamwidth 3dB	Deg	32.3 +/- 3	30.3 +/- 1.6	28.5 +/- 2.7	24.4 +/- 1.9	23.7 +/- 1.8
Elevation Beamwidth 3dB	Deg	7.9 +/- 0.5	7.4 +/- 0.3	6.9 +/- 0.6	6 +/- 0.3	5.5 +/- 0.3
Beam Center	Deg	+/-30	+/-28	+/-25	+/-24	+/-23
F/B at +/-30deg Total Power	dB	22.7	23.9	24.8	22.8	20.1
First Upper Side Lobe Suppression	dB	15.9	15.8	15.8	14.4	16.2
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	26				
Interband Isolation	dB	26				
Beam Isolation	dB	13				
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 (1710-2690 MHZ) [Y4]				
Frequency Band	MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	17.6	18	19.1	19.3	18.8
Gain Over all Tilts	dBi	16.9 +/- 0.7	17.6 +/- 0.4	18.2 +/- 0.9	18.5 +/- 0.8	18.1 +/- 0.7
Azimuth Beamwidth 3dB	Deg	32.7 +/- 2.6	30.2 +/- 0.8	28.7 +/- 2.2	24.4 +/- 1.6	23.4 +/- 1.5
Elevation Beamwidth 3dB	Deg	7.8 +/- 0.4	7.3 +/- 0.2	6.9 +/- 0.5	6 +/- 0.2	5.5 +/- 0.3
Beam Center	Deg	+/-30	+/-28	+/-25	+/-24	+/-23
F/B at +/-30deg Total Power	dB	21.1	22.9	23.6	23.4	21.8
First Upper Side Lobe Suppression	dB	17.5	18.9	18.8	16.1	17.6
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	26				
Interband Isolation	dB	26				
Beam Isolation	dB	13				
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°



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MECHANICAL SPECIFICATIONS

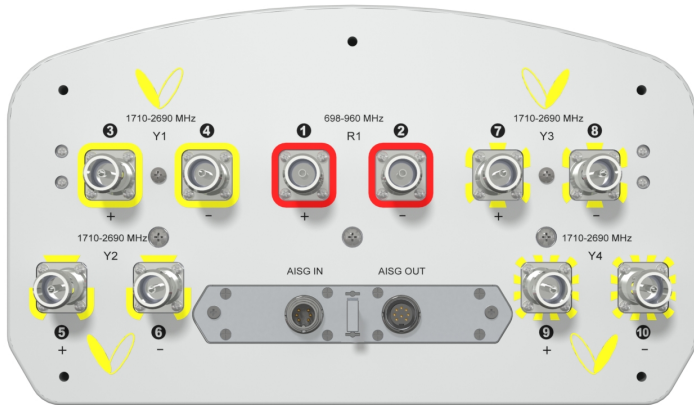
Dimensions - H x W x D	mm (in)	2690 x 396 x 190 (105.9 x 15.6 x 7.5)
Weight (Antenna Only)	kg (lb)	39.5 (87.1)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	2960 x 470 x 265 (116.5 x 18.5 x 10.4)
Shipping Weight	kg (lb)	50.5 (111.3)
Connector type		10 x 4.3-10 female/bottom + 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		Direct grounded
Survival/Rated Wind Velocity	km/h	200 (150)
Wind Load @Rated Wind Front	N	713
Wind Load @Rated Wind Side	N	746
Wind Load @Rated Wind Rear	N	827

ORDERING INFORMATION

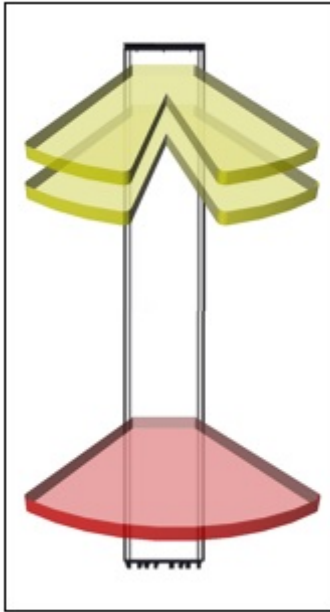
Order No.	Configuration	Mounting Hardware	Mounting Pipe Diameter	Shipping Weight
APXVB34L26AB_43-C-I20	Internal RET(ACU-I20-B5)	APM50-B1	50-110mm	50.5 kg
APXVB34L26AB_43-C-I20S (Material Code: 50016716)	Internal RET(ACU-X20-B5)	APM50-B1	50-110mm	50.5 kg
APXVB34L26AB_43-C-I20S (Material Code: 50016717)	Internal RET(ACU-X20-B5)	APM50-B1	50-110mm	50.5 kg



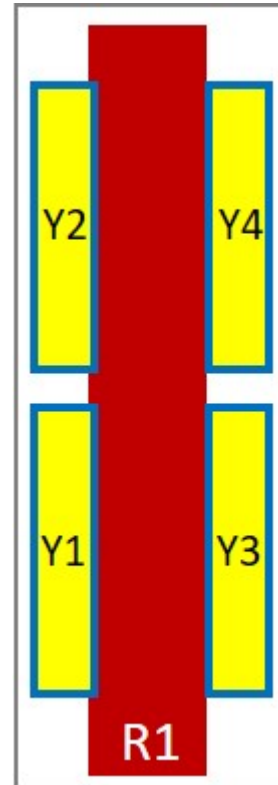
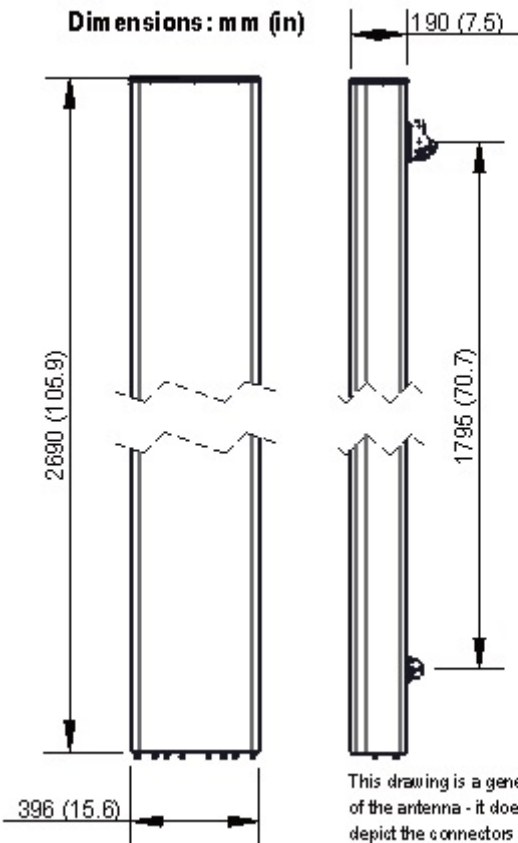


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Dimensions: mm (in)



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](#)



PRODUCT DATASHEET

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