



FEATURES / BENEFITS

- 4 ports / 2 cross pol systems in low band (698-960MHz)
- 4 ports / 2 cross pol systems in high band (1710-2690MHz)
- Supporting 4x4 MIMO
- 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	16.9	17.1
Gain Over all Tilts	dBi	16.1 +/- 0.7	16.6 +/- 0.3	16.5 +/- 0.6
Azimuth Beamwidth 3dB	Deg	75.4 +/- 4.7	70.3 +/- 3.4	67.7 +/- 3.2
Elevation Beamwidth 3dB	Deg	8.3 +/- 0.8	7.6 +/- 0.6	7.1 +/- 0.5
Cross Polar Discrimination at Boresight	dB	22.1	23.1	26.1
Cross Polar Discrimination over Sector	dB	9.8	11	9.2
F/B at +/-30deg Total Power	dB	18.9	21	22
First Upper Side Lobe Suppression	dB	16.8	18.3	18.5
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	350		



ELECTRICAL SPECIFICATIONS

Electrical Specification Header		Low Band Array (698-960 MHz) [R2]		
Frequency Band	MHz	698-806	790-894	880-960
Gain Typical	dBi	16.5	16.8	16.9
Gain Over all Tilts	dBi	15.9 +/- 0.6	16.4 +/- 0.4	16.3 +/- 0.6
Azimuth Beamwidth 3dB	Deg	75.1 +/- 6.3	69.6 +/- 3.4	66.8 +/- 2.4
Elevation Beamwidth 3dB	Deg	8.7 +/- 0.7	8 +/- 0.6	7.3 +/- 0.5
Cross Polar Discrimination at Boresight	dB	19.5	22.3	24.7
Cross Polar Discrimination over Sector	dB	9.4	11.5	10.1
F/B at +/-30deg Total Power	dB	20	24.4	21.6
First Upper Side Lobe Suppression	dB	18.7	18.7	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	350		

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	18.4	18.9	19.4	18.5	17.9
Gain Over all Tilts	dBi	17.5 +/- 0.9	17.9 +/- 1	18.2 +/- 1.2	17.9 +/- 0.6	17.5 +/- 0.4
Azimuth Beamwidth 3dB	Deg	61.6 +/- 7.5	60.1 +/- 7.3	58.8 +/- 9.4	60.9 +/- 10.2	55.5 +/- 6.6
Elevation Beamwidth 3dB	Deg	5.2 +/- 0.6	4.8 +/- 0.5	4.5 +/- 0.6	4 +/- 0.5	3.8 +/- 0.4
Cross Polar Discrimination at Boresight	dB	12.6	13	10.5	9.4	13.9
Cross Polar Discrimination over Sector	dB	6.5	5.7	3.2	1.6	0.9
F/B at +/-30deg Total Power	dB	21.9	23.7	21.9	21.7	20.8
First Upper Side Lobe Suppression	dB	17.7	17.2	17.1	18.3	16.9
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 (1710-2690 MHz) [Y2]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	18.6	18.9	19.5	18.6	18
Gain Over all Tilts	dBi	17.6 +/- 1	17.9 +/- 1	18.3 +/- 1.2	18 +/- 0.6	17.5 +/- 0.5
Azimuth Beamwidth 3dB	Deg	61.4 +/- 5.8	59.3 +/- 5.2	57.3 +/- 7.8	61.5 +/- 8.5	55.5 +/- 6.8
Elevation Beamwidth 3dB	Deg	5.1 +/- 0.7	4.7 +/- 0.5	4.4 +/- 0.7	3.9 +/- 0.5	3.7 +/- 0.5
Cross Polar Discrimination at Boresight	dB	15.5	17.5	11.2	11.2	16.1
Cross Polar Discrimination over Sector	dB	8.9	6.9	5.3	1.1	0.5
F/B at +/-30deg Total Power	dB	21.3	22.4	22.4	20	20.8
First Upper Side Lobe Suppression	dB	17.2	16.1	15	17.2	16.2
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

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	2690 x 499 x 199 (105.9 x 19.6 x 7.8)
Weight (Antenna Only)	kg (lb)	46.5 (102.5)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	2940 x 595 x 295 (115.7 x 23.4 x 11.6)
Shipping Weight	kg (lb)	59 (130.1)
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	1648
Wind Load @Rated Wind Side	N	563
Wind Load @Rated Wind Rear	N	1844

ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting Pipe Diameter	Shipping Weight
APXVBLL26B_43-C-I20	Internal RET (ACU-I20-B4)	APM50-B1	50-110mm	59.0 kg

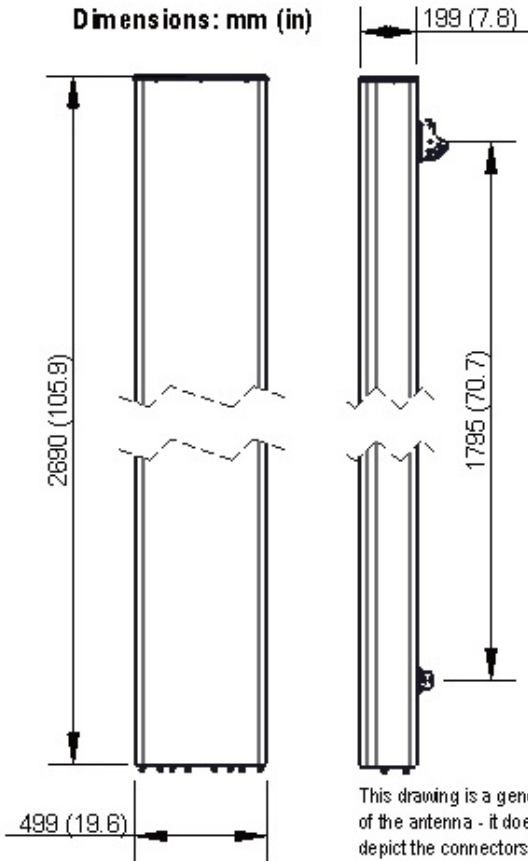


APXVBLL26B_43-C-I20

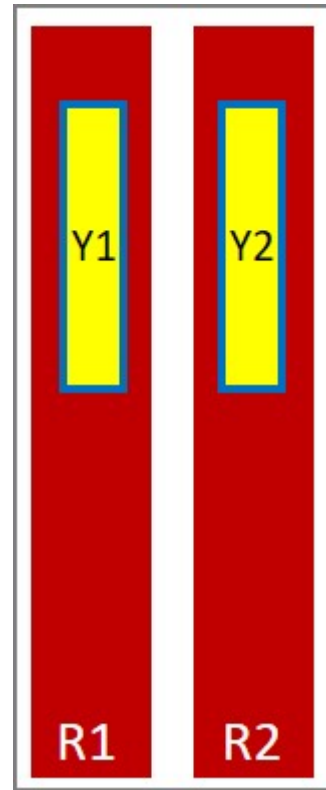
8-Ports, X-Pol, Panel Antenna, 2.6m, 2x 698-960/2x 1710-2690MHz, 65deg, Integrated RET



Dimensions: mm (in)



This drawing is a general representation of the antenna - it does NOT accurately depict the connectors or radome shape.



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](#)



APXVBLL26B_43-C-I20

8-Ports, X-Pol, Panel Antenna, 2.6m, 2x 698-960/2x 1710-2690MHz, 65deg, Integrated RET

