



APXVBBLL15H2_43-C-I20

8-Ports, X-Pol, Panel Antenna, 1.5m, 2x 690-960/2x 1695-2690MHz, 65deg, Integrated RET

FEATURES / BENEFITS

- 4 ports / 2 cross pol systems in low band (690-960MHz)
- 4 ports / 2 cross pol systems in high band (1695-2690MHz)
- Supports 4x4 MIMO in low band and high band
- Integrated and field replaceable SRET
- ACU HW Version -HRLS170901H1.00
- 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	15	15.2	15.1
Gain Over all Tilts	dBi	14 +/- 1	14.7 +/- 0.5	15 +/- 0.1
Azimuth Beamwidth 3dB	Deg	62 +/- 4.5	56.8 +/- 3.4	54.8 +/- 6.5
Elevation Beamwidth 3dB	Deg	15.8 +/- 1	14.1 +/- 1	12.7 +/- 1
Cross Polar Discrimination at Boresight	dB	21	24	22
Cross Polar Discrimination over Sector	dB	12	11	11.5
F/B at +/-30deg Total Power	dB	20	22	23
First Upper Side Lobe Suppression	dB	17	19	19
Electrical Downtilt	Deg	2 to 12		
Cross Polar Isolation	dB	25		
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		LOW BAND ARRAY (690-960 MHz) [R2]		
Frequency Band	MHz	690 - 806	790 - 894	880 - 960
Gain Typical	dBi	15.4	15.2	15.1
Gain Over all Tilts	dBi	14.4 +/- 1	14.7 +/- 0.5	15 +/- 0.1
Azimuth Beamwidth 3dB	Deg	62.4 +/- 6	56.6 +/- 3	54.4 +/- 5.5
Elevation Beamwidth 3dB	Deg	15.2 +/- 1.5	13.6 +/- 0.5	12.3 +/- 1
Cross Polar Discrimination at Boresight	dB	18	21.4	23
Cross Polar Discrimination over Sector	dB	10	9	8
F/B at +/-30deg Total Power	dB	20	22	24
First Upper Side Lobe Suppression	dB	15	18	18
Electrical Downtilt	Deg	2 to 12		
Cross Polar Isolation	dB	25		
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) [Y1]				
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	16.4	17.3	17.7	17.7	17.9
Gain Over all Tilts	dBi	15.9 +/- 0.5	16.8 +/- 0.5	17.2 +/- 0.5	17.2 +/- 0.5	17.4 +/- 0.5
Azimuth Beamwidth 3dB	Deg	70.2 +/- 6.5	66.8 +/- 6.9	62.5 +/- 5.5	55.6 +/- 5	59 +/- 5
Elevation Beamwidth 3dB	Deg	7.4 +/- 0.5	6.7 +/- 0.5	6.3 +/- 0.5	5.6 +/- 0.5	5 +/- 0.1
Cross Polar Discrimination at Boresight	dB	19	23	21	17	18
Cross Polar Discrimination over Sector	dB	4	6	3	4	1
F/B at +/-30deg Total Power	dB	24	25	25	25.9	26
First Upper Side Lobe Suppression	dB	19	20	18	15	17
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	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	16.9	17.4	17.8	17.8	18
Gain Over all Tilts	dBi	16 +/- 0.9	16.9 +/- 0.5	17.3 +/- 0.5	17.3 +/- 0.5	17.5 +/- 0.5
Azimuth Beamwidth 3dB	Deg	69.5 +/- 7.1	65.4 +/- 6	62.1 +/- 4.1	55 +/- 4	58.3 +/- 4
Elevation Beamwidth 3dB	Deg	7.4 +/- 0.5	6.8 +/- 0.5	6.3 +/- 0.5	5.5 +/- 0.5	5 +/- 0.1
Cross Polar Discrimination at Boresight	dB	20	21	20.6	16.6	17
Cross Polar Discrimination over Sector	dB	6	7.7	5	4	2
F/B at +/-30deg Total Power	dB	22.8	25.9	25	26	27
First Upper Side Lobe Suppression	dB	18	19	18	16.5	19
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	250				

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	1498 x 469 x 205 (59 x 18.5 x 8.1)
Weight (Antenna Only)	kg (lb)	25 (55.1)
Weight (Mounting Hardware only)	kg (lb)	5.5 (12.1)
Packing size- HxWxD	mm (in)	1697 x 544 x 315 (66.8 x 21.4 x 12.4)
Shipping Weight	kg (lb)	32 (70.5)
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	318
Wind Load @Rated Wind Side	N	339
Wind Load @Rated Wind Rear	N	331

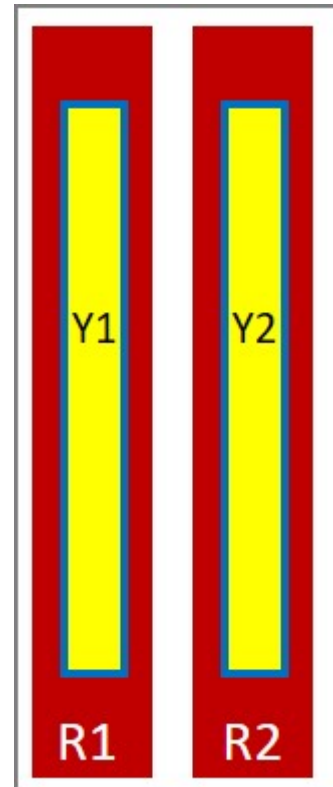
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVBLL15H2_43-C-I20	Internal RET(ACU-I20-H12B)	APM50-H2	50-125mm	32.0 Kg

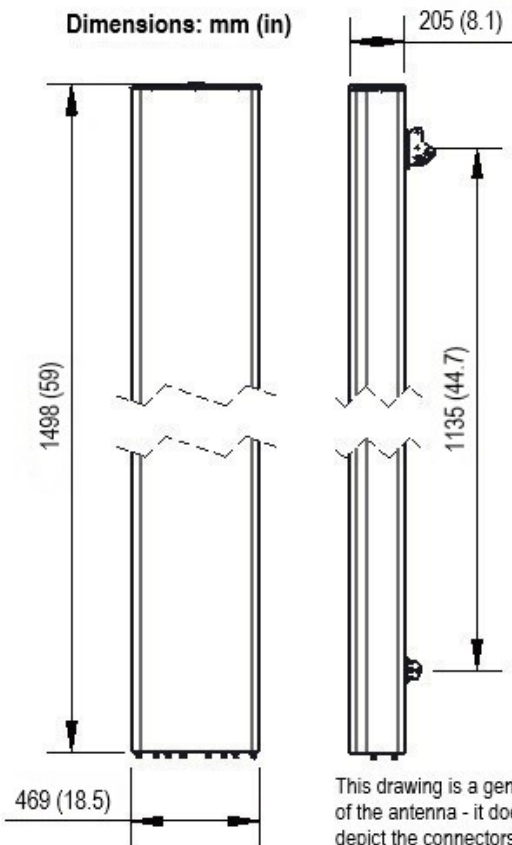


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8-Ports, X-Pol, Panel Antenna, 1.5m, 2x 690-960/2x 1695-2690MHz, 65deg, Integrated RET



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](#)