PRODUCT DATASHEET

APXV34L24AS_43-C-I20

8-Ports, X-Pol, Twin Beam Antenna, 2.5m, 4x 1710-2690MHz, 33deg, Integrated RET

FEATURES / BENEFITS

- 8 ports / 4 cross pol systems in high band (1710-2690MHz)
- Integrated and field replaceable SRET
- ACU HW Version -2.02
- Compliant with AISG V2.0 and 3GPP

Technical features

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	19.1	18.8	20.2	19.9	19.8
Gain Over all Tilts	dBi	18.1 +/- 1	18.3 +/- 0.5	19.2 +/- 1	18.9 +/- 1	19.3 +/- 0.5
Azimuth Beamwidth 3dB	Deg	40.7 +/- 2.7	38.1 +/- 1.4	34.3 +/- 2.5	31.3 +/- 1.5	29.7 +/- 1
Elevation Beamwidth 3dB	Deg	8 +/- 0.1	7.5 +/- 0.5	6.9 +/- 0.5	6.1 +/- 1	5.9 +/- 0.5
Cross Polar Discrimination at Boresight	dB	21	21.3	9.5	5	9
Cross Polar Discrimination over Sector	dB	9	8.9	7	4	2
F/B at +/-30deg Total Power	dB	23	23	22	21.4	21
First Upper Side Lobe Suppression	dB	18.9	19	19.4	20	22.6
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Beam Isolation	dB	28				
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		High Band Array (1710-2690 MHz) [Y2]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	18.2	18.1	19.8	19.1	19.2
Gain Over all Tilts	dBi	17.7 +/- 0.5	18 +/- 0.1	18.8 +/- 1	18.1 +/- 1	18.7 +/- 0.5
Azimuth Beamwidth 3dB	Deg	40.7 +/- 2	38.2 +/- 1.5	34.4 +/- 2.4	31.4 +/- 0.6	29.8 +/- 1.1
Elevation Beamwidth 3dB	Deg	7.9 +/- 0.5	7.4 +/- 0.5	7 +/- 0.1	6.3 +/- 0.5	6 +/- 0.1
Cross Polar Discrimination at Boresight	dB	21.6	23.8	8.6	5	7
Cross Polar Discrimination over Sector	dB	7.8	8	7	5	1.9
F/B at +/-30deg Total Power	dB	23	22.5	20	20.1	20
First Upper Side Lobe Suppression	dB	20	21	22.7	19.4	20
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Beam Isolation	dB	28				
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		High Band Array (1710-2690 MHz) [Y3]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	18.2	18.1	19.8	18.9	19
Gain Over all Tilts	dBi	17.7 +/- 0.5	18 +/- 0.1	18.8 +/- 1	17.9 +/- 1	18.5 +/- 0.5
Azimuth Beamwidth 3dB	Deg	40.8 +/- 2	38.2 +/- 2	34.2 +/- 2.5	31.3 +/- 1	29.5 +/- 1.5
Elevation Beamwidth 3dB	Deg	8.1 +/- 0.5	7.6 +/- 0.5	7 +/- 0.9	6.3 +/- 0.5	6 +/- 1
Cross Polar Discrimination at Boresight	dB	20	20.8	9.2	6.6	7.8
Cross Polar Discrimination over Sector	dB	8.3	8	5.8	3.2	0.6
F/B at +/-30deg Total Power	dB	21.8	23	20.2	20	20
First Upper Side Lobe Suppression	dB	20	20.9	22	18.1	19
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Beam Isolation	dB	28				
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		High Band Array (1710-2690 MHz) [Y4]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	19.3	19	20.3	20	19.9
Gain Over all Tilts	dBi	18.3 +/- 1	18.5 +/- 0.5	19.3 +/- 1	19 +/- 1	19.4 +/- 0.5
Azimuth Beamwidth 3dB	Deg	40.4 +/- 2.5	38.1 +/- 1.5	34.4 +/- 2.6	31.2 +/- 1.5	29.5 +/- 1.4
Elevation Beamwidth 3dB	Deg	8 +/- 0.1	7.5 +/- 0.5	6.9 +/- 0.5	6.2 +/- 1	6 +/- 0.2
Cross Polar Discrimination at Boresight	dB	19	19	10.5	6.5	10
Cross Polar Discrimination over Sector	dB	8.9	9	7.3	4	2
F/B at +/-30deg Total Power	dB	23.2	21.6	21.9	20.8	20
First Upper Side Lobe Suppression	dB	19.6	20	20.3	22.2	20
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Beam 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)	2460 x 396 x 160 (96.9 x 15.6 x 6.3)
Weight (Antenna Only)	kg (lb)	34 (75)
Weight (Mounting Hardware only)	kg (lb)	7 (15.4)
Packing size- HxWxD	mm (in)	2747 x 520 x 294 (108.1 x 20.5 x 11.6)
Shipping Weight	kg (lb)	46.8 (103.2)
Connector type		8 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	847
Wind Load @Rated Wind Side	N	424
Wind Load @Rated Wind Rear	N	1188

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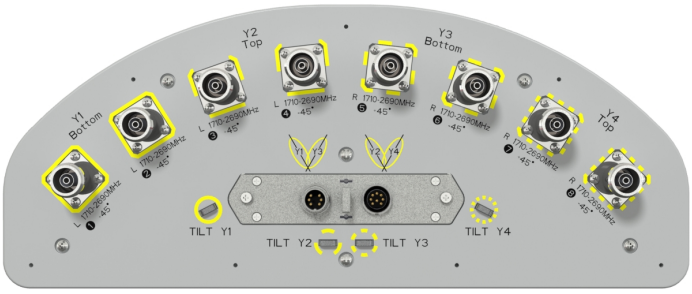
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting Pipe Diameter	Shipping Weight
APXV34L24AS_43-C-I20	Internal RET(ACU-I20-B4)	APM50-W5	50-115 mm	46.8 kg



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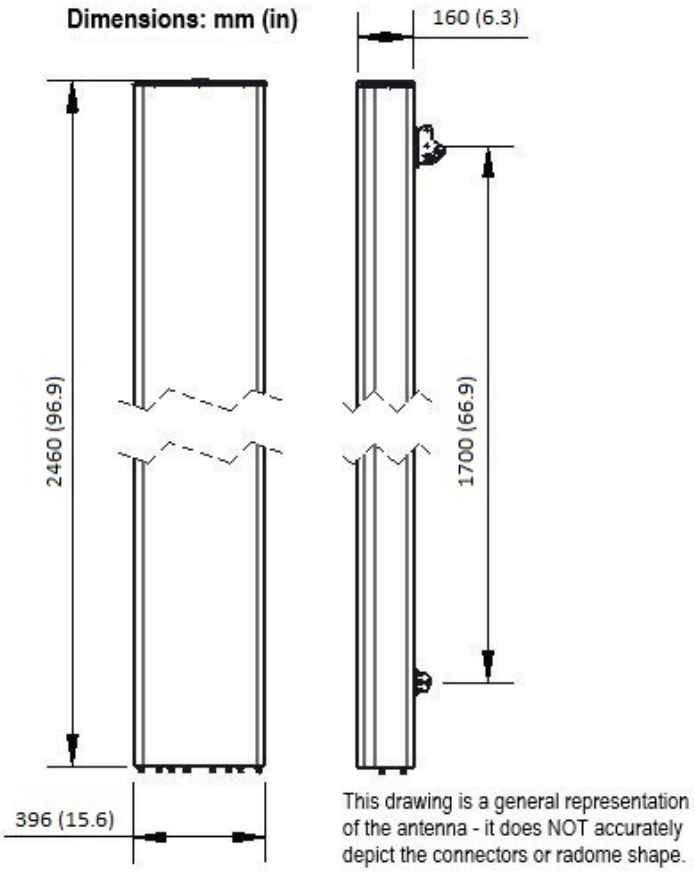

External Document Links

APM50_Series_Installation_Instructions

Notes

- Inter distance between both clamps of 8-Port Twin Beam : < 1.8m.
- 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