PRODUCT DATASHEET

APXVLL15V_43-C-I20

4-Ports, X-Pol, Panel Antenna, 1.5m, 2x 1710-2690MHz, 65deg, Integrated RET

FEATURES / BENEFITS

- 4 ports / 2 cross pol system 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		High Band Array (1710-2690 MHz) [Y1]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	17.4	17.5	17.7	18.1	18.3
Gain Over all Tilts	dBi	17.1 +/- 0.3	17.3 +/- 0.2	17.4 +/- 0.3	17.7 +/- 0.4	17.9 +/- 0.4
Azimuth Beamwidth 3dB	Deg	67.5 +/- 3.5	69.6 +/- 3.7	71 +/- 2.9	66.4 +/- 1.6	60.4 +/- 3.3
Elevation Beamwidth 3dB	Deg	6.6 +/- 0.3	6.1 +/- 0.3	5.7 +/- 0.5	5 +/- 0.2	4.6 +/- 0.2
Cross Polar Discrimination at Boresight	dB	18.7	22.1	22.3	23.1	26
Cross Polar Discrimination over Sector	dB	15.1	14.9	15	14	12.3
F/B at +/-30deg Total Power	dB	24.8	24.1	24.1	24.8	21
First Upper Side Lobe Suppression	dB	17.1	16.4	16.2	16.9	16.4
Electrical Downtilt	Deg	0 to 10				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-150				
Maximum Effective Power per Port	Watt	250				

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering.

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	17.3	17.5	17.6	18	18.1
Gain Over all Tilts	dBi	16.7 +/- 0.6	17 +/- 0.5	17.1 +/- 0.5	17.4 +/- 0.6	17.5 +/- 0.6
Azimuth Beamwidth 3dB	Deg	67.1 +/- 3.8	70 +/- 4.3	71.7 +/- 3	66.4 +/- 1.7	60.2 +/- 3.6
Elevation Beamwidth 3dB	Deg	6.6 +/- 0.3	6 +/- 0.4	5.6 +/- 0.4	5 +/- 0.2	4.6 +/- 0.3
Cross Polar Discrimination at Boresight	dB	17.5	21	20.7	22.2	23.7
Cross Polar Discrimination over Sector	dB	14.1	14.1	13.8	14.4	11.4
F/B at +/-30deg Total Power	dB	25	24.6	24.3	24.6	21.9
First Upper Side Lobe Suppression	dB	16.9	15.8	16.1	17.7	15.7
Electrical Downtilt	Deg	0 to 10				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-150				
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)	1495 x 320 x 123 (58.9 x 12.6 x 4.8)
Weight (Antenna Only)	kg (lb)	15.3 (33.7)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	1770 x 445 x 245 (69.7 x 17.5 x 9.6)
Shipping Weight	kg (lb)	22.7 (50)
Connector type		4 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiberglass / Light Grey RAL7035

TESTING AND ENVIRONMENTAL

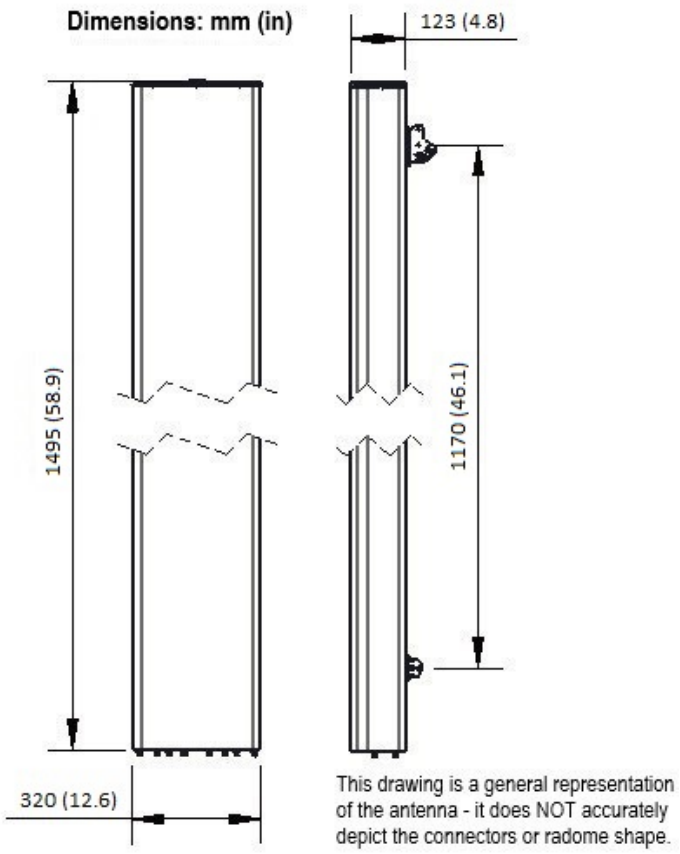
Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		Direct Ground
Survival/Rated Wind Velocity	km/h	200 (150)
Wind Load @Rated Wind Front	N	588
Wind Load @Rated Wind Side	N	226
Wind Load @Rated Wind Rear	N	700

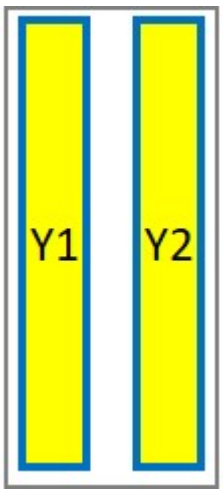
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVLL15V_43-C-I20	Internal RET (ACU-I20-B2)	APM50-B1	50-110 mm	24.4 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

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