



APXVLLL15B_43-C-I20

Wideband X-pol Antenna, 1710-2690/1710-2690/1710-2690 MHz, 65deg, 18.7/18.9/18.8 dBi, 1.5m, 2-12deg, Integrated RET

FEATURES / BENEFITS

- 6 ports / 3 cross pol systems in high band (1710-2690MHz)
- Supporting 4x4 MIMO
- Integrated and field replaceable SRET
- ACU HW Version -2.02 / SW Version -2.72
- 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	17.6	17.8	18.7	18.7	18.6
Gain Over all Tilts	dBi	17.1 +/- 0.5	17.5 +/- 0.3	18.1 +/- 0.6	18.2 +/- 0.5	17.7 +/- 0.9
Azimuth Beamwidth 3dB	Deg	64.2 +/- 3.7	63.5 +/- 5.3	65.4 +/- 5	64.6 +/- 4.5	60.8 +/- 6.3
Elevation Beamwidth 3dB	Deg	6.9 +/- 0.5	6.4 +/- 0.4	5.8 +/- 0.5	5.2 +/- 0.4	4.9 +/- 0.4
Cross Polar Discrimination at Boresight	dB	18.7	21.3	20.7	17.8	22.6
Cross Polar Discrimination over Sector	dB	17	15.7	13.5	12.6	13.6
F/B at +/-30deg Total Power	dB	24.3	26.1	25.6	21.6	19.9
First Upper Side Lobe Suppression	dB	19.4	19.4	19	18.2	14.9
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Interband 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	17.8	18	18.8	18.6	18.9
Gain Over all Tilts	dBi	17.3 +/- 0.5	17.7 +/- 0.3	18.3 +/- 0.5	18.1 +/- 0.5	18.2 +/- 0.7
Azimuth Beamwidth 3dB	Deg	60.2 +/- 5	56.3 +/- 2.5	58.6 +/- 4.9	66.8 +/- 2.9	58.7 +/- 5.2
Elevation Beamwidth 3dB	Deg	6.9 +/- 0.5	6.4 +/- 0.3	5.9 +/- 0.5	5.3 +/- 0.4	4.8 +/- 0.3
Cross Polar Discrimination at Boresight	dB	17.1	18.9	20.6	19.5	21.1
Cross Polar Discrimination over Sector	dB	15.5	13.9	12.6	12.3	11.4
F/B at +/-30deg Total Power	dB	25.5	25.9	25	22.2	19.8
First Upper Side Lobe Suppression	dB	20.5	20	18.1	19.5	15.2
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
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 (1710-2690 MHz) [Y3]				
Frequency Band	MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	17.6	17.8	18.8	18.7	18.6
Gain Over all Tilts	dBi	17.1 +/- 0.5	17.5 +/- 0.3	18.2 +/- 0.6	18.1 +/- 0.6	17.7 +/- 0.9
Azimuth Beamwidth 3dB	Deg	64.2 +/- 4.2	63.5 +/- 5.3	65.4 +/- 5.1	66.2 +/- 3.3	61.4 +/- 5.6
Elevation Beamwidth 3dB	Deg	6.9 +/- 0.5	6.4 +/- 0.3	5.9 +/- 0.5	5.3 +/- 0.3	4.9 +/- 0.4
Cross Polar Discrimination at Boresight	dB	18.3	21.2	22.7	21.7	20.9
Cross Polar Discrimination over Sector	dB	14.5	13.7	12.6	11.3	12.2
F/B at +/-30deg Total Power	dB	24.4	24.7	25.5	22.5	21.5
First Upper Side Lobe Suppression	dB	19.8	19.4	17.9	17.2	14.3
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Interband 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

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	1486 x 428 x 145 (58.5 x 16.9 x 5.7)
Weight (Antenna Only)	kg (lb)	21.9 (48.3)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	1750 x 515 x 230 (68.9 x 20.3 x 9.1)
Shipping Weight	kg (lb)	30.2 (66.6)
Connector type		6 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	783
Wind Load @Rated Wind Side	N	265
Wind Load @Rated Wind Rear	N	822

ORDERING INFORMATION

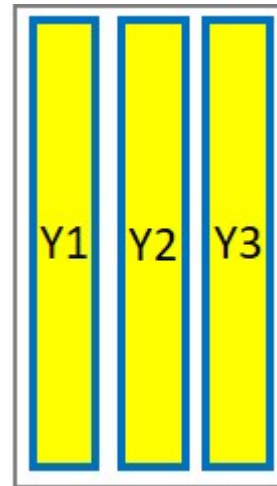
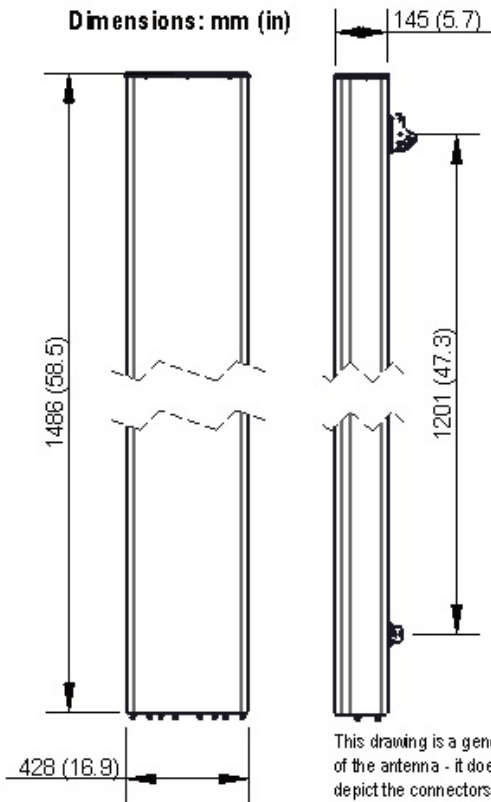
Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVLLL15B_43-C-I20	Internal RET (ACU-I20-B3)	APM50-B1	50-110 mm	30.2 Kg





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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](#)