



**APXV3LL15B\_43-C-I20**

High band 4 port antenna, 1710-2690/1710-2690 MHz, 33deg, 22.1/22.1 dBi, 1.5m, 2-12deg, Integrated RET

**FEATURES / BENEFITS**

- Single beam antenna, 33deg
- 4 ports / 2 cross pol systems in high band (1710-2690MHz)
- 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	21	21.3	21.1	21.1	22.1
Gain Over all Tilts	dBi	20 +/- 1	20.8 +/- 0.5	21 +/- 0.1	21 +/- 0.1	21.6 +/- 0.5
Azimuth Beamwidth 3dB	Deg	37.8 +/- 2.5	32.9 +/- 2	29.8 +/- 3.5	25.7 +/- 0.8	25.9 +/- 2
Elevation Beamwidth 3dB	Deg	6.6 +/- 0.5	6 +/- 0.1	5.8 +/- 0.5	5 +/- 0.1	4.7 +/- 0.5
Beam Center	Deg	+/-27	+/-27	+/-27	+/-27	+/-27
Cross Polar Discrimination at Boresight	dB	21	23	23	21.7	18.8
Cross Polar Discrimination over Sector	dB	8	10	11	8	2
F/B at +/-30deg Total Power	dB	27	28	27	24	24
First Upper Side Lobe Suppression	dB	18	19	18.3	15.9	16
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	20.9	21.3	21.2	21.1	22.1
Gain Over all Tilts	dBi	19.9 +/- 1	20.8 +/- 0.5	21 +/- 0.2	21 +/- 0.1	21.6 +/- 0.5
Azimuth Beamwidth 3dB	Deg	37.8 +/- 2.5	32.9 +/- 2	29.8 +/- 3.5	25.9 +/- 1	25.9 +/- 2
Elevation Beamwidth 3dB	Deg	6.7 +/- 0.5	6 +/- 0.1	5.9 +/- 0.5	5 +/- 0.1	4.8 +/- 0.5
Beam Center	Deg	+/-27	+/-27	+/-27	+/-27	+/-27
Cross Polar Discrimination at Boresight	dB	20	21	20	20	18
Cross Polar Discrimination over Sector	dB	10	10	10	9	5
F/B at +/-30deg Total Power	dB	27	28	28	26	23
First Upper Side Lobe Suppression	dB	19	19	19	20	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	250				

**ELECTRICAL SPECIFICATIONS**

Impedance	Ohm	50
Polarization	Deg	±45°

**MECHANICAL SPECIFICATIONS**

Dimensions - H x W x D	mm (in)	1498 x 499 x 199 (59 x 19.6 x 7.8)
Weight (Antenna Only)	kg (lb)	26 (57.3)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	1785 x 620 x 320 (70.3 x 24.4 x 12.6)
Shipping Weight	kg (lb)	38 (83.8)
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	918
Wind Load @Rated Wind Side	N	314
Wind Load @Rated Wind Rear	N	1024

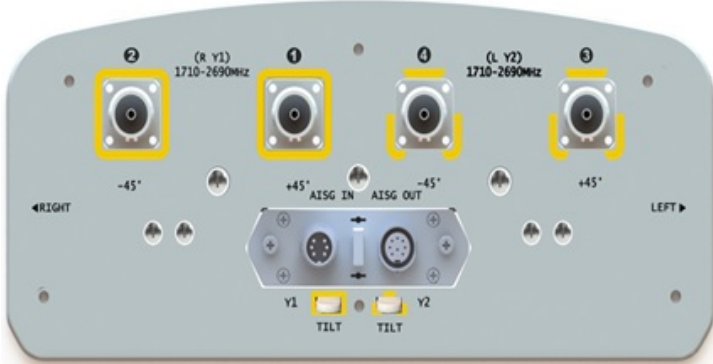


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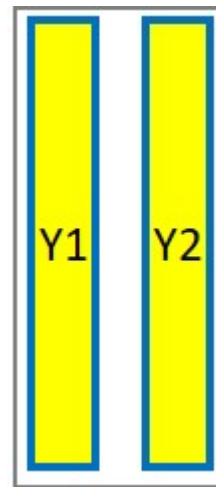
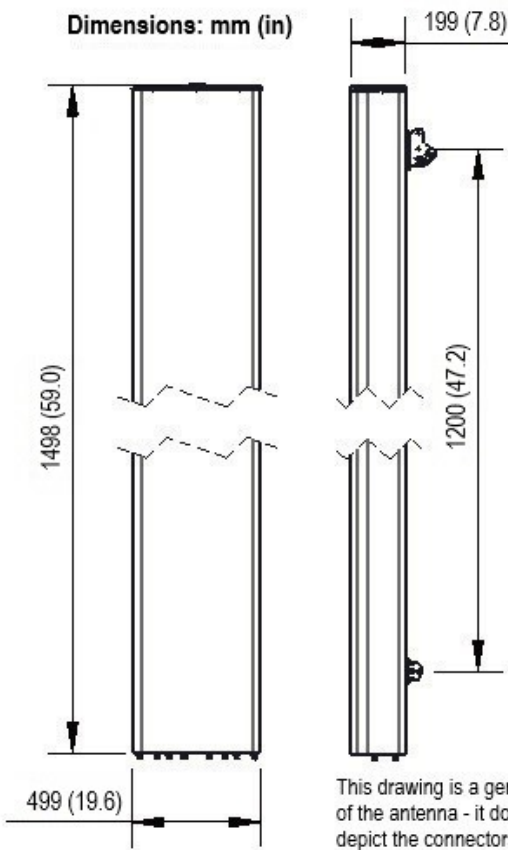
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#### ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXV3LL15B_43-C-I20	Internal RET(ACU-I20-B2)	APM50-B1	50-110mm	38.0 Kg



Dimensions: mm (in)



#### 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](#)