



APXVRRMM15B-C-I20

8-port X-Pol Antenna, 1.5m, 1695-2200/1695-2200/2490-2690/2490-2690MHz, 65deg, 17.4/17.2/18.0/17.8dBi, 2-12deg, Integrated RET

FEATURES / BENEFITS

- 2 cross pol systems in high band (1695-2690MHz), diplexed, resulting in 4 ports 1695-2200MHz and 4 ports 2490-2690MHz
- Integrated & 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 (1695-2200 MHz) [B1]		
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2200
Gain Typical	dBi	17.4	17.1	17.3
Gain Over all Tilts	dBi	16.9 +/- 0.5	17 +/- 0.1	16.8 +/- 0.5
Azimuth Beamwidth 3dB	Deg	67.4 +/- 2.5	68.2 +/- 2.5	68 +/- 2
Elevation Beamwidth 3dB	Deg	6.8 +/- 0.5	6 +/- 0.1	5.9 +/- 0.5
Cross Polar Discrimination at Boresight	dB	16	20	21
Cross Polar Discrimination over Sector	dB	14	14	15
F/B at +/-30deg Total Power	dB	27.9	27	27
First Upper Side Lobe Suppression	dB	14	15	15
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 (1695-2200 MHz) [B2]		
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2200
Gain Typical	dBi	17	17.1	17.2
Gain Over all Tilts	dBi	16.5 +/- 0.5	17 +/- 0.1	16.7 +/- 0.5
Azimuth Beamwidth 3dB	Deg	67.8 +/- 3	67 +/- 3	67.3 +/- 2.5
Elevation Beamwidth 3dB	Deg	6.6 +/- 0.5	6 +/- 0.1	5.8 +/- 0.5
Cross Polar Discrimination at Boresight	dB	17	18	19
Cross Polar Discrimination over Sector	dB	12	11	11
F/B at +/-30deg Total Power	dB	25	26	26
First Upper Side Lobe Suppression	dB	15		
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 (2490-2690 MHz) [Y1]		
Frequency Band	MHz	2490 - 2690		
Gain Typical	dBi	18		
Gain Over all Tilts	dBi	17.5 +/- 0.5		
Azimuth Beamwidth 3dB	Deg	58.6 +/- 3.5		
Elevation Beamwidth 3dB	Deg	4.8 +/- 0.5		
Cross Polar Discrimination at Boresight	dB	22		
Cross Polar Discrimination over Sector	dB	11		
F/B at +/-30deg Total Power	dB	25		
First Upper Side Lobe Suppression	dB	13		
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 (2490-2690 MHz) [Y2]
Frequency Band	MHz	2490 - 2690
Gain Typical	dBi	17.8
Gain Over all Tilts	dBi	17.3 +/- 0.5
Azimuth Beamwidth 3dB	Deg	58.3 +/- 4
Elevation Beamwidth 3dB	Deg	4.8 +/- 0.5
Cross Polar Discrimination at Boresight	dB	20
Cross Polar Discrimination over Sector	dB	10
F/B at +/-30deg Total Power	dB	25
First Upper Side Lobe Suppression	dB	14
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

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	1499 x 350 x 200 (59 x 13.8 x 7.9)
Weight (Antenna Only)	kg (lb)	20.3 (44.8)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	1765 x 450 x 295 (69.5 x 17.7 x 11.6)
Shipping Weight	kg (lb)	29 (63.9)
Connector type		8 x 7/16 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	659
Wind Load @Rated Wind Side	N	342
Wind Load @Rated Wind Rear	N	373

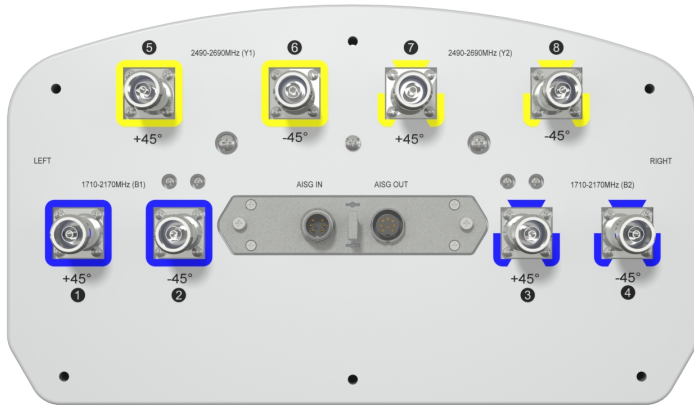
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting Pipe Diameter	Shipping Weight
APXVRRMM15B-C-I20	Internal RET (ACU-I20-B4)	APM50-B1	50-110mm	29.0 kg

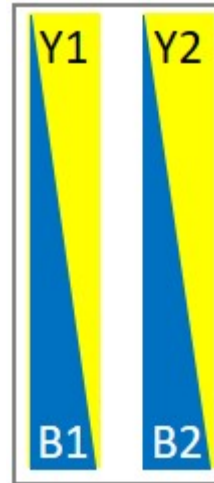
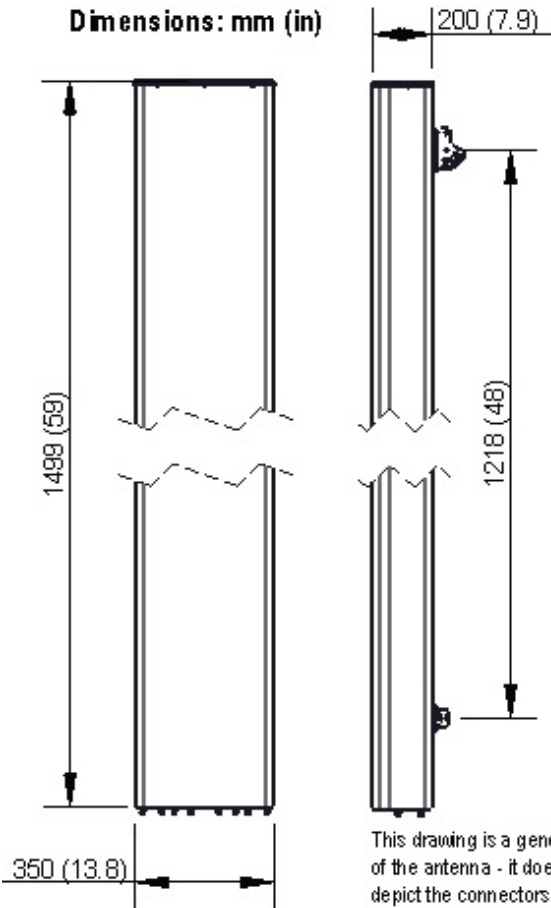


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Dimensions: mm (in)



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".



PRODUCT DATASHEET

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- Radiating patterns: [Request pattern files](#)