PRODUCT DATASHEET

APXVRRMM15H_43-C-I20

8-Ports, X-Pol, Panel Antenna, 1.4m, 2x 1695-2170/2x 2490-2690MHz, 65deg, Integrated RET

FEATURES / BENEFITS

- 4 ports / 2 cross pol systems in high band (1695-2170 MHz)
- 4 ports / 2 cross pol systems in high band (2490-2690 MHz)
- Integrated and field replaceable SRET
- ACU HW Version -HRLS200608H1.00
- Compliant with AISG V2.0 and 3GPP

Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAYS (1695-2170 MHZ) [B1]		
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170
Gain Typical	dBi	16.8	17.3	17.3
Gain Over all Tilts	dBi	16.4 +/- 0.4	17 +/- 0.3	17 +/- 0.3
Azimuth Beamwidth 3dB	Deg	67 +/- 2.1	64.8 +/- 2.3	64.2 +/- 2
Elevation Beamwidth 3dB	Deg	7.2 +/- 0.4	6.6 +/- 0.3	6.3 +/- 0.4
Cross Polar Discrimination at Boresight	dB	23.9	25.1	25.2
Cross Polar Discrimination over Sector	dB	10.7	12.3	13
F/B at +/-30deg Total Power	dB	24.6	27.3	27.5
First Upper Side Lobe Suppression	dB	18.4	18.5	18.6
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	200		

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAYS (1695-2170 MHZ) [B2]		
Frequency Band	MHz	1695 - 1880	1850 - 1990	1920 - 2170
Gain Typical	dBi	16.9	17.1	17.2
Gain Over all Tilts	dBi	16.4 +/- 0.5	16.9 +/- 0.2	16.9 +/- 0.3
Azimuth Beamwidth 3dB	Deg	66.6 +/- 2.3	64.7 +/- 1.7	64.3 +/- 2
Elevation Beamwidth 3dB	Deg	7.1 +/- 0.4	6.6 +/- 0.3	6.3 +/- 0.5
Cross Polar Discrimination at Boresight	dB	26	28.7	29.3
Cross Polar Discrimination over Sector	dB	11.2	13.1	13.8
F/B at +/-30deg Total Power	dB	24.1	26.4	26.4
First Upper Side Lobe Suppression	dB	17.9	16.9	17.7
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	200		

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAYS (2490-2690 MHZ) [Y1]
Frequency Band	MHz	2490-2690
Gain Typical	dBi	17.7
Gain Over all Tilts	dBi	17.2 +/- 0.5
Azimuth Beamwidth 3dB	Deg	58.8 +/- 2.7
Elevation Beamwidth 3dB	Deg	5.1 +/- 0.2
Cross Polar Discrimination at Boresight	dB	24.7
Cross Polar Discrimination over Sector	dB	9.9
F/B at +/-30deg Total Power	dB	24
First Upper Side Lobe Suppression	dB	16.3
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	200

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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAYS (2490-2690 MHZ) [Y2]
Frequency Band	MHz	2490-2690
Gain Typical	dBi	17.4
Gain Over all Tilts	dBi	16.9 +/- 0.5
Azimuth Beamwidth 3dB	Deg	59.2 +/- 3.2
Elevation Beamwidth 3dB	Deg	5.1 +/- 0.2
Cross Polar Discrimination at Boresight	dB	25
Cross Polar Discrimination over Sector	dB	9.1
F/B at +/-30deg Total Power	dB	22.3
First Upper Side Lobe Suppression	dB	18
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	200

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	1398 x 278 x 168 (55 x 10.9 x 6.6)
Weight (Antenna Only)	kg (lb)	16 (35.3)
Weight (Mounting Hardware only)	kg (lb)	4 (8.8)
Packing size- HxWxD	mm (in)	1578 x 373 x 278 (62.1 x 14.7 x 10.9)
Shipping Weight	kg (lb)	22.1 (48.7)
Connector type		8 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		UPVC / 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	360
Wind Load @Rated Wind Side	N	280
Wind Load @Rated Wind Rear	N	400

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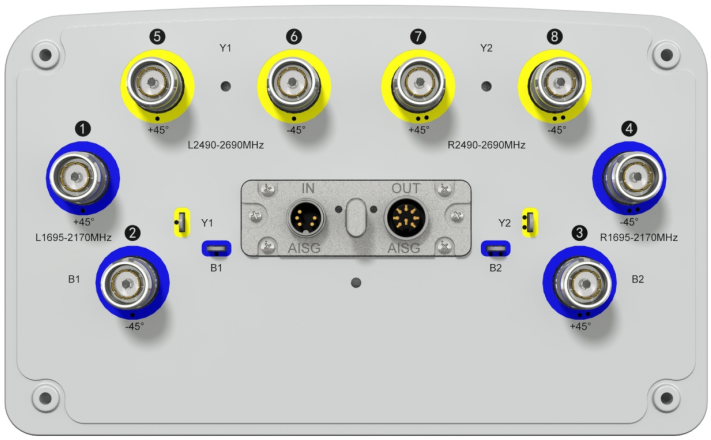
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Antenna Weight
APXVRRMM15H_43-C-I20	Internal RET(ACU-I20-H12I)	APM50-H1	50 - 125mm	22.1 kg



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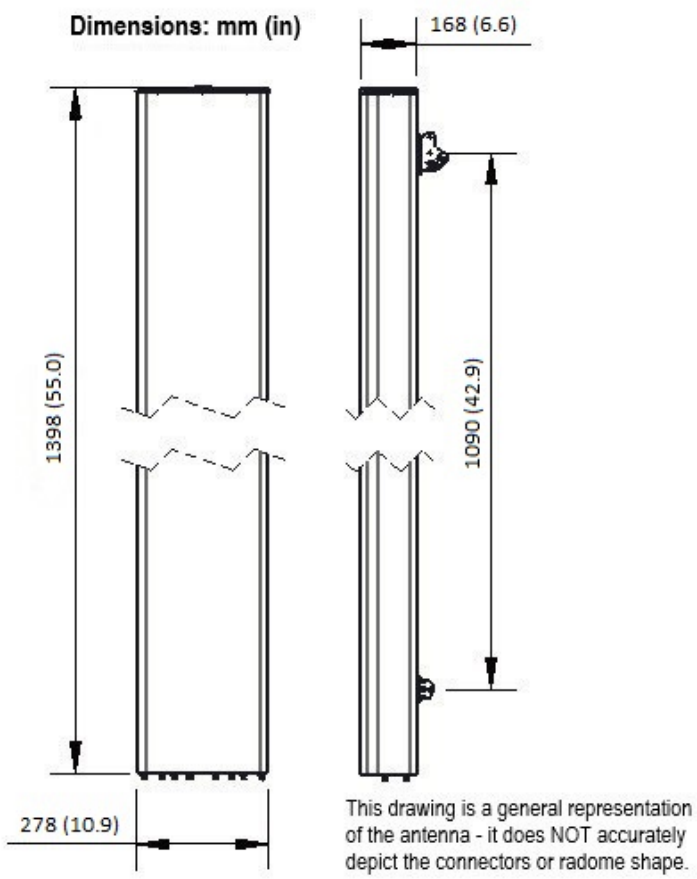

External Document Links

APM50_Series_Installation_Instructions

Notes

- All electrical parameters are compliant with NGMN-P-BASTA 11.1 requirements.
- For additional mounting information please click "External Document Links".

- **Radiating patterns:** Request pattern files