



Dual Slant Polarized Triple Band (6 Port) Antenna, 584-746/1695-2200/1695-2200MHz, 65 deg, 15.7/19.3/19.2dBi, 1.8m (6ft), VET, RET, 0-12°/2-12°/2-12° Tilt Range

FEATURES / BENEFITS

This antenna provides a 6 Port multi-band flexible platform for advanced use for flexible use in deployment scenarios for encompassing 600MHz, 700MHz, AWS & PCS applications.



- ➔ Field Replaceable (Integrated) AISG RET platform for reduced environmental exposure and long lasting quality.
- ➔ Superior elevation pattern performance across the entire electrical down tilt range.
- ➔ Includes three AISG RET motors - Includes 0.5m AISG jumper for optional diasy chain of two high band RET motors for one single point of high band AISG tilt control.

Technical Features

LOW BAND ARRAY (584-746 MHZ) [R1]

Frequency Range	MHz	584-617	617-698	698-746
Typical Gain	dBi	14.7	15.0	15.7
Gain Over All Tilts	dBi	14.4+/-0.3	14.7+/-0.3	15.3+/-0.4
Horizontal Beamwidth	deg	63.9+/-1.2	62.1+/-1.8	60+/-1.2
Vertical Beamwidth	deg	15.9+/-0.9	14.4+/-0.8	13.0+/-0.4
Electrical Down Tilt Range	deg	0-12		
Upper Side Lobe Suppression Peak to +20	deg	22.7	21.2	18.5
Upper Side Lobe Suppression 0 to +20	deg	20.3	17.8	15.6
Front to Back Ratio +/-30 Copolar	dB	26.8	26.9	27.9
Cross Polar Isolation between ports	dB	26		
Cross Polar Discrimination (XPD) @ Boresight	dB	22.8	22.3	21.2
Cross Polar Discrimination (XPD) at +/- 60	dB	10.5	8.6	7.2
VSWR		1.5:1		
3rd Order IMP 2 x 43dBm	dBc	-153		
Maximum Power Input	Watts	250		



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HIGH BAND LEFT ARRAY (1695-1880 MHZ) [B1]

Frequency Range	MHz	1695-1880	1850-1990	1920-2200
Typical Gain	dBi	17.7	18.0	19.3
Gain Over All Tilts	dBi	17.2+/-0.5	17.5+/-0.5	18.4+/-0.9
Horizontal Beamwidth	deg	69.3+/-3.4	69+/-3.7	66.4+/-4.3
Vertical Beamwidth	deg	6.7+/-0.4	6.1+/-0.4	5.6+/-0.4
Electrical Down Tilt Range	deg	2-12		
Upper Side Lobe Suppression Peak to +20	dB	17.9	17.4	16.7
Upper Side Lobe Suppression 0 to +20	dB	17.4	16.3	15.9
Front to Back Ratio +/-30 Copolar	dB	28.1	30.3	29.8
Cross Polar Isolation between ports	dB	26		
Cross Polarization (XPD) @ Boresight	dB	21.6	20.2	19.2
Cross Polarization (XPD) @ +/-60	dB	8.7	10.1	8
VSWR		1.5:1		
3rd Order IMP 2 x 43dBm	dB	-153		
Maximum Power Input	Watts	250		

HIGH BAND RIGHT ARRAY (1695-1880 MHZ) [B2]

Frequency Range	MHz	1695-1880	1850-1990	1920-2200
Typical Gain	dBi	17.6	18.2	19.2
Gain Over All Tilts	dBi	17.1+/-0.5	17.6+/-0.6	18.4+/-0.8
Horizontal Beamwidth	deg	69.5+/-3.6	68.9+/-3.5	66.6+/-4.3
Vertical Beamwidth	deg	6.8+/-0.4	6.2+/-0.4	5.6+/-0.4
Electrical Down Tilt Range	deg	2-12		
Upper Side Lobe Suppression Peak to +20	dB	18.6	17.7	17.6
Upper Side Lobe Suppression 0 to +20	dB	17.8	16.7	16.6
Front to Back Ratio +/-30 Copolar	dB	27.8	29.6	29.4
Cross Polar Isolation between Ports	dB	26		
Cross Polarization (XPD) @ Boresight	dB	21.5	18.7	17
Cross Polarization (XPD) @ +/-60	dB	8	9.2	8.3
VSWR		1.5:1		
3rd Order IMP 2 x 43dBm	dB	-153		
Maximum Power Input	Watts	250		



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ELECTRICAL SPECIFICATIONS

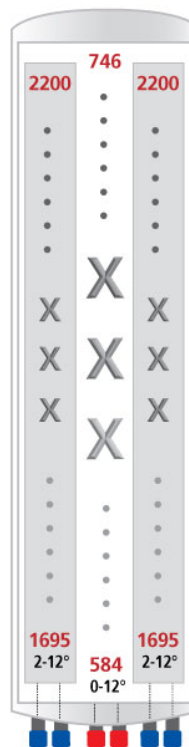
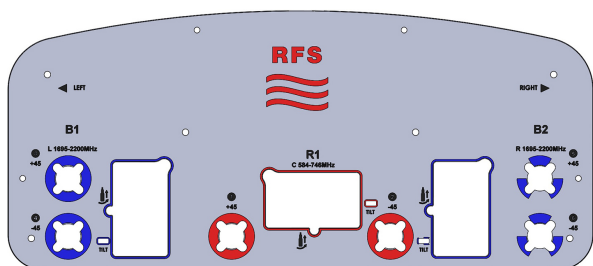
Impedance	Ohm	50.0
Polarization	Deg	+/-45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	1829 x 500 x 216 (72 x 19.7 x 8.5)
Weight (Antenna Only)	kg (lb)	33.5 (73.9)
Weight (Mounting Hardware only)	kg (lb)	11.5 (25.4)
Packing size- HxWxD	mm (in)	1975 x 560 x 411 (77.8 x 22 x 16.2)
Shipping Weight	kg (lb)	51.8 (114.2)
Connector type		6 x 4.3-10 Long Neck Female/Bottom + 6 AISG RET connectors (3 male, 3 female)
Adjustment mechanism		Integrated RET solution AISG compliant (Field Replaceable)
Mounting Hardware Material		Diecast Aluminium and Galvanized steel
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	241 (150)
Wind Load @Rated Wind Front	N	912.0
Wind Load @Rated Wind Side	N	333.0
Wind Load @Rated Wind Rear	N	1014.0





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ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Weight
APXVARR18_43-C-NA20	Field Replaceable RET (3)	APM40-5E Heavy Duty Beam Tilt Kit	60-120mm	33.5 kg (73.9 lbs)

External Document Links

APM40-5E_Installation_Instructions

Notes

All electrical parameters are compliant with BASTA NGMN 9.6 requirements. For additional mounting information please click "External Document Links". APM40-5E Mount Kit Included with Antenna.

*This data is provisional and subject to changes.

External Link Reference

