



Dual Slant Polarized Triple Band (6 Port) Antenna, 584-746/1695-2200/1695-2200MHz, 65deg, 15.7/18.5/18.5dBi, 2.4m (8ft), VET, RET, 0-10°/0-10°/0-10° 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 AISG point of high band tilt control.

Technical Features

ANTENNA PERFORMANCE - R1

Frequency Range	MHz	584-617	617-698	698-746
Gain	dBi	15.3	15.6	16.0
Horizontal Beamwidth	deg	63	61	59
Vertical Beamwidth	deg	11.4	10.4	9.4
Electrical Down Tilt Range	deg	0-10	0-10	0-10
Upper Side Lobe Suppression Peak to +20	deg	21	21	23
Upper Side Lobe Suppression 0 to +20	deg	20	20	20
Front to Back Ratio +/-30 Copolar	dB	27	30	30
Cross Polar Isolation between ports	dB	26	26	26
Cross Polar Discrimination (XPD) @ Boresight	dB	22	25	26
Cross Polar Discrimination (XPD) at +/- 60	dB	12	9	6
VSWR		1.5:1	1.5:1	1.5:1
3rd Order IMP 2 x 43dBm	dBc			153
Maximum Power Input	Watts	250	250	250



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ANTENNA PERFORMANCE - LEFT B1

Frequency Range	MHz	1695-1880	1850-1990	1920-2200
Gain	dBi	17.1	17.7	18.4
Horizontal Beamwidth	deg	67	68	67
Vertical Beamwidth	deg	6.2	5.8	5.2
Electrical Down Tilt Range	deg	0-10	0-10	0-10
Upper Side Lobe Suppression Peak to +20	dB	21	18	17
Upper Side Lobe Suppression 0 to +20	dB	20	18	16
Front to Back Ratio +/-30 Copolar	dB	29	30	30
Cross Polar Isolation between ports	dB	26	26	26
Cross Polarization (XPD) @ Boresight	dB	21	20	18
Cross Polarization (XPD) @ +/-60	dB	7	10	7
VSWR		1.5:1	1.5:1	1.5:1
3rd Order IMP 2 x 43dBm	dB	153	153	153
Maximum Power Input	Watts	250	250	250

ANTENNA PERFORMANCE - RIGHT B2

Frequency Range	MHz	1695-1880	1850-1990	1920-2200
Gain	dBi	16.9	17.9	18.5
Horizontal Beamwidth	deg	68	68	68
Vertical Beamwidth	deg	6.2	5.7	5.2
Electrical Down Tilt Range	deg	0-10	0-10	0-10
Upper Side Lobe Suppression Peak to +20	dB	20	21	16
Upper Side Lobe Suppression 0 to +20	dB	17	19	16
Front to Back Ratio +/-30 Copolar	dB	28	29	29
Cross Polar Isolation between Ports	dB	26	26	26
Cross Polarization (XPD) @ Boresight	dB	21	18	17
Cross Polarization (XPD) @ +/-60	dB	7	9	7
VSWR		1.5:1	1.5:1	1.5:1
3rd Order IMP 2 x 43dBm	dB	153	153	153
Maximum Power Input	Watts	250	250	250



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ELECTRICAL SPECIFICATIONS

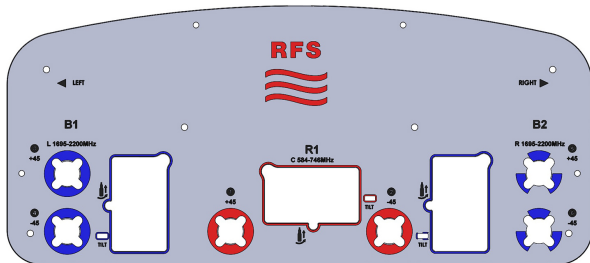
Impedance	Ohm	50.0
Polarization	Deg	+/-45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	2438 x 500 x 216 (96 x 19.7 x 8.5)
Weight (Antenna Only)	kg (lb)	40.5 (89.3)
Weight (Mounting Hardware only)	kg (lb)	11.5 (25.4)
Packing size- HxWxD	mm (in)	2590 x 560 x 411 (102 x 22 x 16.2)
Shipping Weight	kg (lb)	60.5 (133.4)
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	1223.0
Wind Load @Rated Wind Side	N	446.0
Wind Load @Rated Wind Rear	N	1360.0





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ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Weight
APXVARR24_43-C-NA20	Field Replaceable RET (3)	APM40-5E Dual Beam tilt kit	60-120mm	40.5 kg (89.3 lbs)

External Document Links

APM40_Series_Installation_Instructions

Notes

For additional mounting information please click "External Document Links".

External Link Reference

