



Dual Slant Polarized Single Band (2 Port) Antenna, 584-746MHz, 65 deg, 16.2dBi, 2.4m (8ft), VET, RET, 0-10° Tilt Range

FEATURES / BENEFITS

This antenna provides a two port platform for advanced use in 600MHz and 700MHz deployment scenarios in a high quality package design built to withstand harsh environments.



- ➔ Field Replaceable (Integrated) AISG RET platform for reduced environmental exposure and long lasting quality.
- ➔ Superior elevation performance across the entire electrical down tilt range.
- ➔ High Gain performance for optimum site coverage, reduced power and signal integrity.
- ➔ Excellent Front-to-Back Ratio for less interference from neighboring cells.
- ➔ Manual Override feature for electrical downtilt adjustment.

Technical Features

ANTENNA PERFORMANCE - R1

Frequency Range	MHz	584-617	617-698	698-746
Gain	dBi	15.2	15.6	16.2
Horizontal Beamwidth	deg	66	63	60
Vertical Beamwidth	deg	11.6	10.5	9.5
Electrical Downtilt Range	deg	0-10	0-10	0-10
Upper Side Lobe Suppression Peak to +20	dB	24	20	18
Upper Side Lobe Suppression 0 to +20	dB	18	18	17
Front to Back Ratio +/-30 Copolar	dB	30	30	30
Cross Polar Isolation Between Ports	dB	30	30	30
3rd Order IMP 2 x 43dBm	dBc			153
Cross Polarization (XPD) @ Boresight	dB	23	24	25
Cross Polarization (XPD) @ +/-60	dB	14	13	12
VSWR		1.5:1	1.5:1	1.5:1
Maximum Power Input	Watts	250	250	250



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ELECTRICAL SPECIFICATIONS

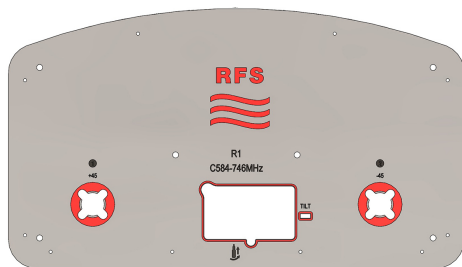
Impedance	Ohm	50.0
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	2438 x 406 x 228 (96 x 16 x 9)
Weight (Antenna Only)	kg (lb)	27.5 (60.6)
Weight (Mounting Hardware only)	kg (lb)	3.4 (7.5)
Packing size- HxWxD	mm (in)	2550 x 500 x 410 (100.4 x 19.7 x 16.1)
Shipping Weight	kg (lb)	38 (83.8)
Connector type		2 x 4.3-10 Long Neck Female/Bottom + 2 AISG connectors (1 male, 1 female)
Adjustment mechanism		Integrated RET solution AISG compliant (Field Replaceable) + Manual Override + External Tilt Indicator
Mounting Hardware Material		Diecast Aluminium and Galvanized steel
Radome Material / Color		ASA / 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	1255.0
Wind Load @Rated Wind Side	N	631.0
Wind Load @Rated Wind Rear	N	1215.0
Environmental		ETSI 300-019-2-4 Class 4.1E





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ORDERING INFORMATION

Model Number	Configuration	Mounting Hardware	Mounting pipe Diameter	Antenna Weight
APXVA24_43-C-A20	Field Replaceable RET Included (1)	APM40-2 Beam tilt kit	60-120mm	27.5 kg (60.6 lbs)

External Document Links

APM40_Series_Installation_Instructions

Notes

External Link Reference

