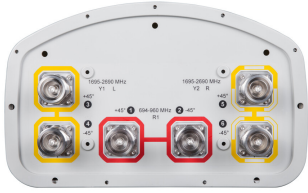


RVV-65D-M



6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, RET compatible

- Utilizes AccuRET® actuator(s) on the back of the antenna

OBSOLETE

This product was discontinued on: November 30, 2023

General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Dimensions

Width	301 mm 11.85 in
Depth	180 mm 7.087 in
Length	2645 mm 104.134 in
Net Weight, without mounting kit	26.2 kg 57.761 lb

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 694 – 960 MHz

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Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2200	2300–2500	2500–2690
Gain, dBi	16.6	16.9	17.3	17.1	17.7	17.9	18.5
Beamwidth, Horizontal, degrees	69	68	63	62	64	66	61
Beamwidth, Vertical, degrees	8.2	7.4	6.9	7.3	6.6	5.7	5.3
Beam Tilt, degrees	0–10	0–10	0–10	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	20	20	17	16	17	18
Front-to-Back Ratio at 180°, dB	29	30	31	30	33	35	31
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30	30
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2200	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	16.3	16.8	17.2	16.6	17.3	17.7	18.1
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.2	±0.6	±0.4	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0° 16.1 5° 16.3 10° 16.3	0° 16.6 5° 16.8 10° 16.8	0° 17.0 5° 17.3 10° 17.1	2° 16.5 7° 16.7 12° 16.5	2° 17.2 7° 17.5 12° 17.1	2° 17.4 7° 17.9 12° 17.4	2° 17.8 7° 18.3 12° 17.7
Beamwidth, Horizontal Tolerance, degrees	±1.1	±2.6	±2.7	±3.1	±6.1	±4.1	±9.3
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.3	±0.5	±0.5	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	17	18	19	12	15	14	13
Front-to-Back Total Power at 180° ± 30°, dB	24	24	23	23	27	26	24
CPR at Boresight, dB	21	20	19	15	19	22	21

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CPR at Sector, dB	10	9	10	10	7	9	7
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Mechanical Specifications

Wind Loading @ Velocity, frontal	433.0 N @ 150 km/h (97.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	367.0 N @ 150 km/h (82.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	834.0 N @ 150 km/h (187.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	439.0 N @ 150 km/h (98.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	409 mm 16.102 in
Depth, packed	309 mm 12.165 in
Length, packed	2894 mm 113.937 in
Weight, gross	45.8 kg 100.972 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

BSAMNT-3	-	Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.
BSAMNT-M	-	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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