

RV4-65D-M-V2



10-port sector antenna, 2x 694–960 and 8x 1695–2690 MHz, 65° HPBW, AccuRET capable

OBSOLETE

This product was discontinued on: November 30, 2023

Replaced By:

RV4-65B-R5-V2

10-port sector antenna, 2x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 5x RET

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	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

Dimensions

Width	350 mm 13.78 in
Depth	208 mm 8.189 in
Length	2688 mm 105.827 in
Net Weight, without mounting kit	31 kg 68.343 lb

Electrical Specifications

RV4-65D-M-V2

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1695–1880	1920–2200	2300–2500	2500–2690
Gain, dBi	16.6	17.2	17.4	16.8	17.5	18.1	18
Beamwidth, Horizontal, degrees	67	65	63	62	62	62	62
Beamwidth, Vertical, degrees	8.2	7.4	6.8	7.5	6.5	5.7	5.4
Beam Tilt, degrees	0–10	0–10	0–10	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	19	24	22	15	16	15	15
Front-to-Back Ratio at 180°, dB	32	35	38	31	35	37	36
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28
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	250	250	250		200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960	1695–1880	1920–2200	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	16.4	16.9	17.2	16.3	17.1	17.7	17.6
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.2	±0.7	±0.6	±0.6	±0.6
Gain by Beam Tilt, average, dBi	0° 16.2 5° 16.5 10° 16.5	0° 16.6 5° 17.0 10° 16.9	0° 17.0 5° 17.4 10° 17.2	2° 16.2 7° 16.4 12° 16.2	2° 16.8 7° 17.2 12° 17.0	2° 17.3 7° 17.8 12° 17.7	2° 17.3 7° 17.7 12° 17.4
Beamwidth, Horizontal Tolerance, degrees	±1.1	±1.5	±1.4	±3.4	±2.1	±3.5	±3.5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.3	±0.5	±0.5	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	16	16	17	13	14	14	13
Front-to-Back Total Power at	26	25	25	27	28	28	28

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180° ± 30°, dB

CPR at Boresight, dB	17	20	20	18	21	19	17
CPR at Sector, dB	11	10	10	10	11	8	7

Mechanical Specifications

Wind Loading @ Velocity, frontal	477.0 N @ 150 km/h (107.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	409.0 N @ 150 km/h (91.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,010.0 N @ 150 km/h (227.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	506.0 N @ 150 km/h (113.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	460 mm 18.11 in
Depth, packed	350 mm 13.78 in
Length, packed	2830 mm 111.417 in
Weight, gross	47.5 kg 104.719 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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