

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

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Retractable tilt indicator rods

This product will be discontinued on: November 30, 2024

Replaced By:

RV3-65D-R4-V3

8-port sector antenna, 2x 694–960 and 6x 1695–2690 MHz, 65° HPBW, 4x IntRET. Antenna rear wind loading 506N @ 150km/h

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	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	6
RF Connector Quantity, low band	2
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male

Page 1 of 6

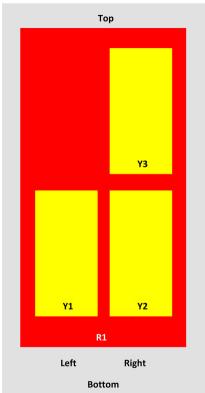
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Input Voltage	10-30 Vdc
Internal RET	High band (3) Low band (1)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	350 mm 13.78 in
Depth	208 mm 8.189 in
Length	2688 mm 105.827 in
Net Weight, without mounting kit	32.5 kg 71.65 lb

Array Layout

<u>RV3-65D-R4</u>



View from the front of the antenna

(Sizes of colored boxes are not true depictions of array sizes)

Page 2 of 6

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Port Configuration



Electrical Specifications

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	1695-1920	1920-2200	2300-2500	2500-2690	
Gain, dBi	16.5	17.3	17.4	17	17.5	18.2	18.2	
Beamwidth, Horizontal, degrees	67	64	61	63	63	63	62	
Beamwidth, Vertical, degree	s 8.2	7.4	6.8	7.3	6.4	5.6	5.3	
Beam Tilt, degrees	0-10	0-10	0-10	2-12	2-12	2-12	2-12	
USLS (First Lobe), dB	18	24	23	16	17	16	16	
Front-to-Back Ratio at 180°, dB	31	33	34	35	37	37	37	
Isolation, Cross Polarization dB	, 28	28	28	28	28	28	28	

Page 3 of 6

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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	200

Electrical Specifications, BASTA

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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	17	17.3	16.5	17.1	17.8	17.7
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.3	±0.8	±0.6	±0.6	±0.6
Gain by Beam Tilt, average, dBi	0 ° 16.1 5 ° 16.4 10 ° 16.3	0 ° 16.7 5 ° 17.0 10 ° 17.0	0 ° 17.1 5 ° 17.4 10 ° 17.3	2 ° 16.3 6 ° 16.6 12 ° 16.4	2 ° 16.8 6 ° 17.2 12 ° 17.1	2 ° 17.3 6 ° 17.9 12 ° 17.7	2 ° 17.4 6 ° 17.9 12 ° 17.4
Beamwidth, Horizontal Tolerance, degrees	±1.1	±1.9	±1.4	±3.9	±2.7	±3.4	±3.5
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.3	±0.6	±0.5	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	15	17	18	12	14	13	12
Front-to-Back Total Power at 180° ± 30°, dB	26	25	25	28	28	29	28
CPR at Boresight, dB	17	20	21	18	20	19	17
CPR at Sector, dB	11	10	10	11	11	7	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	46.5 kg 102.515 lb

Page 4 of 6

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Regulatory Compliance/Certifications

Agency

Classification

CE

Compliant with the relevant CE product directives

UL



Designed, manufactured and/or distributed under this quality management system

Included Products

BSAMNT-4

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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

Page 5 of 6

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BSAMNT-4



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.

Product Classification	
Product Type	Downtilt mounting kit
General Specifications	
Application	Outdoor
Color	Silver
Dimensions	
Compatible Diameter, maximum	115 mm 4.528 in
Compatible Diameter, minimum	60 mm 2.362 in
Weight, net	6.5 kg 14.33 lb
Material Specifications	
Material Type	Galvanized steel
Packaging and Weights	
Included	Brackets Hardware

Packaging quantity 1

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



Page 6 of 6

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