

RV3-65D-R4-V2



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

OBSOLETE

This product was discontinued on: February 28, 2025

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, mid band

0

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

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RET Interface, quantity	2 female 2 male
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)

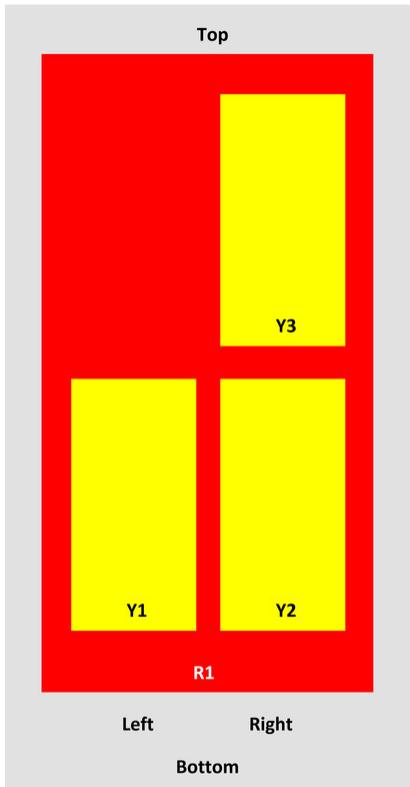
Dimensions

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

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RV3-65D-R4



View from the front of the antenna

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

Port Configuration

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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, degrees	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
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

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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

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

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
ISO 9001:2015	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

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
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General Specifications

Application	Outdoor
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Color	Silver
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Dimensions

Compatible Diameter, maximum	115 mm 4.528 in
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Compatible Diameter, minimum	60 mm 2.362 in
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Weight, net	6.5 kg 14.33 lb
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Material Specifications

Material Type	Galvanized steel
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Packaging and Weights

Included	Brackets Hardware
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Packaging quantity	1
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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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

