

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

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

OBSOLETE

This product was discontinued on: March 27, 2020

Replaced By:

RV4-65D-R5-V6 10-port sector antenna, 2x 694-960 and 8x 1695-2690 MHz, 65° HPBW, 5x RET

General Specifications

Antenna Type Sector

Band Multiband

Grounding TypeRF 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 MaterialFiberglass, UV resistantRadiator MaterialLow 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

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v1

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

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Input Voltage 10-30 Vdc

Internal RET High band (4) | Low band (1)

Power Consumption, idle state, maximum $1~\mathrm{W}$

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

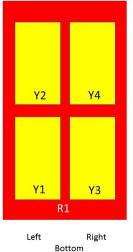
Width 350 mm | 13.78 in

Depth 208 mm | 8.189 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 32 kg | 70.548 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxXR1
Y1	1695-2690	3-4	2	CPxxxxxxxxxxxxXY1
Y2	1695-2690	5-6	3	CPxxxxxxxxxxxxY2
Y3	1695-2690	7-8	4	CPxxxxxxxxxxxxXY3
Y4	1695-2690	9-10	5	CPxxxxxxxxxxxx4

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

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
Frequency Band, MITZ	094-790	790-690	090-900	1093-1920	1920-2200	2300-2300	2300-2090
Gain, dBi	16.6	17.1	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

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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,	250	250	250	200	200	200	200
maximum, watts							

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	16.4	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° 17.3	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 180° ± 30°, dB	26	25	25	27	28	28	28
CPR at Boresight, dB	17	20	20	18	21	19	17
CPR at Sector, dB	11	10	10	10	10	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 mnh)

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	48.5 kg 106.924 lb

Regulatory Compliance/Certifications

Agency Classification

COMMSCOPE®

CE Compliant with the relevant CE product directives

CHINA-ROHS Above maximum concentration value

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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

