

6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET with tilt scales

- 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

OBSOLETE

This product was discontinued on: March 31, 2021

Replaced By:

Band

RVV-65D-R3 6-port sector antenna, 2 x 694-960 and 4x 1695-2690 MHz, 65° HPBW, 3x RET

General Specifications

Antenna Type Sector

Grounding TypeRF connector inner conductor and body grounded to reflector and

Multiband

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 7-16 DIN Female

RF Connector LocationBottom

RF Connector Quantity, high band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 6

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

Input Voltage 10-30 Vdc

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Internal RET High band (2) | 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

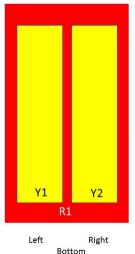
Width 350 mm | 13.78 in

Depth 208 mm | 8.189 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 31.3 kg | 69.005 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	CPxxxxxxxxxxxxxY2

(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 900 W @ 50 °C

Electrical Specifications

'							
Frequency Band, MHz	694-790	790-890	880-960	1695-1920	1920-2180	2300-2500	2490-2690
Gain, dBi	16.6	17	17.2	18.4	19	19.5	19.2
Beamwidth, Horizontal, degrees	67	65	63	62	61	61	61
Beamwidth, Vertical, degrees	8.2	7.4	6.8	5.4	4.9	4.3	4.1
Beam Tilt, degrees	0-10	0-10	0-10	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	21	18	17	17	20	21
Front-to-Back Ratio at 180°, dB	30	32	33	34	38	37	35
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	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	300	300	250	250	250	200	200
maximum, watts							

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	880-960	1695-1920	1920-2180	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	16.4	16.8	17	18.1	18.7	19.1	18.8
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.3	±0.6	±0.5	±0.5	±0.6
Gain by Beam Tilt, average, dBi	0° 16.2 5° 16.4 10° 16.4	0° 16.6 5° 16.9 10° 16.8	0° 16.8 5° 17.1 10° 16.9	2° 17.9 7° 18.2 12° 18.0	2° 18.3 7° 18.8 12° 18.6	2° 18.7 7° 19.3 12° 19.0	2° 18.7 7° 19.0 12° 18.6
Beamwidth, Horizontal Tolerance, degrees	±1.4	±1.7	±1.3	±3.7	±1.9	±5.1	±2.9
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.4	±0.4	±0.3	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	15	16	16	15	16	15	14
Front-to-Back Total Power at 180° ± 30°, dB	25	24	24	29	28	27	27
CPR at Boresight, dB	17	17	17	19	20	18	16
CPR at Sector, dB	10	10	8	11	10	8	5

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	46.3 kg 102.074 lb

Regulatory Compliance/Certifications

Agency Classification

COMMSCOPE®

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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

