

4-port sector antenna, 2x 694–960 and 2x 1695–2690 MHz, 65° HPBW, 2x 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: November 30, 2023

Replaced By:

RVV-65A-R3 6-port sector antenna, 2x 694-960 and 4x 1695-2690 MHz, 65° HPBW, 3x 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 Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, high band 2
RF Connector Quantity, low band 2

RF Connector Quantity, total 4

Remote Electrical Tilt (RET) Information

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

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

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

Power Consumption, idle state, maximum 1 W
Power Consumption, normal conditions, maximum 10 W

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Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

 Length
 1400 mm | 55.118 in

Net Weight, without mounting kit 17.8 kg | 39.242 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	ANxxxxxxxxxxxxxxxxx1
Y1	1695-2690	3-4	2	ANxxxxxxxxxxxxxxx

(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

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Frequency Band, MHz	694-790	790-890	890-960	1695-1920	1920-2180	2300-2690
Gain, dBi	14.1	14.2	14.6	16.9	17.2	18.2
Beamwidth, Horizontal, degrees	68	66	62	64	66	61
Beamwidth, Vertical, degrees	15	13.9	12.9	7.4	6.6	5.7
Beam Tilt, degrees	2-15	2-15	2-15	2-12	2-12	2-12
USLS (First Lobe), dB	13	14	15	22	20	21
Front-to-Back Ratio at 180°, dB	32	29	29	34	33	37
Isolation, Cross Polarization, dB	28	28	28	28	28	28
Isolation, Inter-band, dB	28	28	28	28	28	28
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

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PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	300	300	300	250	250	200
maximum, watts						

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1695-1920	1920-2180	2300-2690
Gain by all Beam Tilts, average, dBi	13.7	13.9	14.3	16.6	16.9	17.8
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.7	±0.5	±0.5	±0.5
Gain by Beam Tilt, average, dBi	2° 13.7 9° 13.7 16° 13.8	2° 13.9 9° 14.0 16° 14.0	2° 14.2 9° 14.3 16° 14.2	2° 16.1 7° 16.7 12° 16.6	2° 16.4 7° 16.9 12° 17.0	2° 17.3 7° 17.9 12° 17.8
Beamwidth, Horizontal Tolerance, degrees	±2.6	±2.6	±4.0	±3.5	±2.2	±6.9
Beamwidth, Vertical Tolerance, degrees	±1	±0.6	±1	±0.5	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB	16	15	15	14	15	14
Front-to-Back Total Power at 180° ± 30°, dB	26	24	23	27	27	27
CPR at Boresight, dB	14	14	16	20	20	20
CPR at Sector, dB	8	10	8	10	12	7

Mechanical Specifications

Mechanical Tilt Range 0°-20.5°

 Wind Loading @ Velocity, frontal
 221.0 N @ 150 km/h (49.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 185.0 N @ 150 km/h (41.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 469.0 N @ 150 km/h (105.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 447 mm | 17.598 in

 Depth, packed
 354 mm | 13.937 in

 Length, packed
 1544 mm | 60.787 in

 Weight, gross
 29 kg | 63.934 lb

Regulatory Compliance/Certifications

COMMSCOPE®

Agency Classification

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

