

8-port sector antenna, 2x 694–960, 2x 1427-2690 and 4x 1695–2690 MHz, 65° HPBW, 4x 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

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 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 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (3) | Low band (1)

Power Consumption, idle state, maximum 1 W

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Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

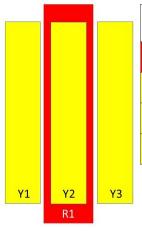
 Width
 395 mm | 15.551 in

 Depth
 203 mm | 7.992 in

 Length
 1980 mm | 77.953 in

 Net Weight, without mounting kit
 29.4 kg | 64.816 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxR1
Y1	1695-2690	3-4	2	CPxxxxxxxxxxxxXY1
Y2	1427-2690	5-6	3	CPxxxxxxxxxxxxXY2
Y3	1695-2690	7-8	4	CPxxxxxxxxxxxxXY3

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

Port Configuration

Bottom

Right



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 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	790-862	880-960	1427-151	8 1695–1920	0 1920-218	0 2300-250	0 2500-2690
Gain, dBi	14.7	15.2	15.3	16.1	17.3	18.4	18.9	18.7
Beamwidth, Horizontal, degrees	73	71	70	67	69	64	56	54
Beamwidth, Vertical, degrees	12.1	11	10.1	7	5.9	5.2	4.5	4.3
Beam Tilt, degrees	2-14	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	15	14	19	18	17	15	14
Front-to-Back Ratio at 180°, dB	34	36	32	29	34	33	33	30
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28	28
Isolation, Inter-band, dB	28	28	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	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	-150
Input Power per Port at 50°C,	300	300	300	250	250	250	200	200
maximum, watts								

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-862	880-960	1427-151	8 1695-192	0 1920-218	0 2300-250	0 2500-2690
Gain by all Beam Tilts, average, dBi	14.5	14.9	15.1	15.8	17	18	18.6	18.2
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.3	±0.4	±0.7	±0.6	±0.6	±0.7
Gain by Beam Tilt, average, dBi	2° 14.4 8° 14.5 14° 14.4	2° 14.8 8° 15.0 14° 14.9	2° 15.0 8° 15.1 14° 15.0	2° 15.7 7° 15.8 12° 15.8	2° 16.9 7° 17.1 12° 16.9	2° 17.9 7° 18.1 12° 17.7	2° 18.7 7° 18.8 12° 18.0	2° 18.2 7° 18.3 12° 17.8
Beamwidth, Horizontal Tolerance, degrees	±2.6	±2.4	±1.5	±2.6	±5	±7.5	±7	±8
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.5	±0.6	±0.3	±0.5	±0.4	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	14	15	14	17	17	17	15	13
Front-to-Back Total Power at 180° ± 30°, dB	23	23	23	25	25	26	26	24
CPR at Boresight, dB	14	14	14	18	17	19	17	17
CPR at Sector, dB	10	10	8	4	9	9	8	3

Mechanical Specifications

Wind Loading @ Velocity, frontal	519.0 N @ 150 km/h (116.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	268.0 N @ 150 km/h (60.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	662.0 N @ 150 km/h (148.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	497.0 N @ 150 km/h (111.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	532 mm 20.945 in
Depth, packed	387 mm 15.236 in
Length, packed	2127 mm 83.74 in
Weight, gross	44.7 kg 98.547 lb

Regulatory Compliance/Certifications

Agency Classification

COMMSCOPE®

RZVV-65B-R4

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-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

