

8-port sector antenna, 4x 694-960 and 4x 1427-2690 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
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

This product will be discontinued on: November 30, 2024

Replaced By:

RRZZ-65A-R4N43 8-port sector antenna, 4 x 694-960, 4 x 1427-2690 MHz, 65° HPBW, 4x RET

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 Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 4
RF Connector Quantity, low band 4

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 2 female | 2 male

Input Voltage 10-30 Vdc

COMMSCOPE®

Internal RET High band (2) | Low band (2)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

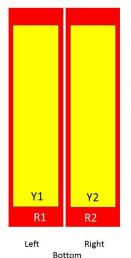
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 1499 mm | 59.016 in

Net Weight, without mounting kit 33 kg | 72.752 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxR2
Y1	1427-2690	5-6	3	CPxxxxxxxxxxxxxY1
Y2	1427-2690	7-8	4	CPxxxxxxxxxxxxxY2

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

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band $1427 - 2690 \text{ MHz} \quad | \quad 694 - 960 \text{ MHz}$

Polarization ±45°

Total Input Power, maximum 900 W @ 50 $^{\circ}$ C

Electrical Specifications

Frequency Band, MHz	694-790	790-890	890-960	1427-1518	8 1695–192	0 1920–2180	0 2300-250	0 2500-2690
Gain, dBi	13.6	13.9	13.9	15.4	16.8	17.1	17.4	17.2

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Beamwidth, Horizontal, degrees	68	68	62	64	59	61	61	64
Beamwidth, Vertical, degrees	16.2	14.3	13	9.2	7.6	6.9	5.9	5.6
Beam Tilt, degrees	2-16	2-16	2-16	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	18	17	19	19	17	18	15
Front-to-Back Ratio at 180°, dB	31	31	32	34	35	36	34	33
Isolation, Cross Polarization, dB	28	28	28	26	28	28	28	28
Isolation, Inter-band, dB	28	28	28	27	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200

Electrical Specifications, BASTA

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Frequency Band, MHz	694-790	790-890	890-960	1427-151	8 1695–192	0 1920–218	0 2300-250	0 2500-2690
Gain by all Beam Tilts, average, dBi	13.1	13.4	13.6	15	16.4	16.7	17.1	16.8
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.6	±0.6	±0.7	±0.6	±0.4	±0.4	±0.7
Gain by Beam Tilt, average, dBi	2° 13.2 10° 13.1 18° 12.9	2° 13.4 10° 13.4 18° 13.1	2° 13.7 10° 13.7 18° 13.2	2° 15.0 7° 15.0 12° 14.7	2° 16.4 7° 16.5 12° 16.1	2° 16.6 7° 16.8 12° 16.4	2° 16.8 7° 17.2 12° 17.0	2° 16.4 7° 17.0 12° 16.5
Beamwidth, Horizontal Tolerance, degrees	±5.3	±5.6	±6	±5	±4.9	±3.2	±5.9	±6.4
Beamwidth, Vertical Tolerance, degrees	±1.5	±1.2	±1	±0.5	±0.6	±0.6	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB				16	17	16	15	14
Front-to-Back Total Power at 180° ± 30°, dB	20	20	22	24	29	28	27	26
CPR at Boresight, dB	23	21	22	17	19	20	18	17
CPR at Sector, dB	10	6	8	8	10	6	7	3

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 549.0 N @ 150 km/h (123.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 183.0 N @ 150 km/h (41.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 712.0 N @ 150 km/h (160.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 452.0 N @ 150 km/h (101.6 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 368 mm | 14.488 in

 Length, packed
 1685 mm | 66.339 in

 Weight, gross
 46.2 kg | 101.853 lb

Regulatory Compliance/Certifications

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

