

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

OBSOLETE

This product was discontinued on: March 31, 2023

Replaced By:

RRZZ-65A-R4 8-port sector antenna, 4x 694-960 and 4x 1427-2690 MHz, 65° HPBW, 4x 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 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

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Input Voltage 10-30 Vdc

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

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

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

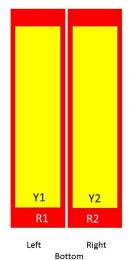
Width 498 mm | 19.606 in

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	CPxxxxxxxxxxxxxR1
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)

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

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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, dBi	13.5	13.9	13.9	15.4	16.7	17.1	17.5	17.2
Beamwidth, Horizontal, degrees	68	68	63	65	58	61	61	65
Beamwidth, Vertical, degrees	16.2	14.3	13	9.2	7.7	7	5.9	5.5
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	18	17	18	22	22
Front-to-Back Ratio at 180°, dB	31	31	32	35	35	37	33	32
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

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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	790-890	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	16.3	16.7	17.2	16.8
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.6	±0.6	±0.7	±0.8	±0.5	±0.5	±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° 15.1 7° 15.1 12° 14.7	2° 16.5 7° 16.4 12° 15.8	2° 16.8 7° 16.9 12° 16.3	2° 17.2 7° 17.4 12° 16.8	2° 16.8 7° 17.2 12° 16.2
Beamwidth, Horizontal Tolerance, degrees	±5.3	±5.6	±6	±3.7	±4.4	±2.9	±6.4	±6.5
Beamwidth, Vertical Tolerance, degrees	±1.5	±1.2	±1	±0.6	±0.7	±0.6	±0.4	±0.3
USLS, beampeak to 20° above beampeak, dB				15	15	16	15	15
Front-to-Back Total Power at 180° ± 30°, dB	20	20	22	25	29	28	27	27
CPR at Boresight, dB	23	21	22	19	20	20	19	18
CPR at Sector, dB	10	6	8	9	9	5	8	3

Mechanical Specifications

Mechanical Tilt Range 0°-15°

 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)

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

Packaging and Weights

 Width, packed
 608 mm | 23.937 in

 Depth, packed
 352 mm | 13.858 in

 Length, packed
 1682 mm | 66.221 in

 Weight, gross
 45.5 kg | 100.31 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

