

18-port sector antenna, 2x 694-862 (R1), 2x 880-960 (R2), 2x 694-960 (R3), 4x 1427-2690 (Y2&Y4) & 8x 1695-2690 (Y1/Y3/Y5/Y6) MHz, 65° HPBW, 8x RET.

• All Internal RET actuators are connected in "Cascaded SRET" configuration

OBSOLETE

This product was discontinued on: March 31, 2021 Replaced By:

EGRZZV4-65D-R8V2 18-port sector antenna, 2x 694-862 (R1), 2x 880-960 (R2), 2x 694-960 (R3), 4x 1427-2690 (Y2&Y4) & 8x 1695-2690 (Y1/Y3/Y5/Y6) MHz, 65° HPBW, 8x 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 Location Bottom

RF Connector Quantity, high band 12

RF Connector Quantity, low band 6

RF Connector Quantity, total 18

Remote Electrical Tilt (RET) Information

RET HardwareCommRET v1 | CommRET v2

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

RET Interface, quantity 1 female | 1 male

COMMSCOPE®

Input Voltage 10-30 Vdc

Internal RET High band (5) | Low band (3)

Power Consumption, idle state, maximum 2 W

Power Consumption, normal conditions, maximum 9 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

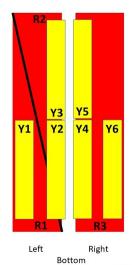
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 62 kg | 136.686 lb

Array Layout



Array	Freq (MHz)	Conns	RET(SRET)	AISG RET UID		
R1	694-862	1-2	1	CPxxxxxxxxxxxxxxR1		
R2	880-960	3-4	2	CPxxxxxxxxxxxxxxxxR2		
R3	694-960	5-6	3	CPxxxxxxxxxxxxxXR3		
Y1	1695-2690	7-8	4	CPxxxxxxxxxxxxxXY1		
Y2	1427-2690	9-10	5	CPxxxxxxxxxxxxxXY2		
Y3	1695-2690	11-12	6	CDwananananana		
Y5	1695-2690	15-16	В	CPxxxxxxxxxxxxXY3		
Y4	1427-2690	13-14	7	CPxxxxxxxxxxxxx4		
Y6	1695-2690	17-18	8	CPxxxxxxxxxxxXY6		

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 1695 – 2690 MHz | 694 – 862 MHz | 694 –

960 MHz | 880 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1	R2	R3	Y1/Y3/Y5/Y	6Y1/Y3/Y5/Y	6Y1/Y3/Y5/Y	6Y2&Y4	Y2&Y4	Y2&Y4
Frequency Band, MHz	694-862	880-960	694-960	1695-2200	2300-2400	2490-2690	1427-151	81695-218	02300-2690
Gain, dBi	15.3	15.5	16.1	17.4	18	18.1	15.2	17	17.8
Beamwidth, Horizontal, degrees	69	64	68	59	58	59	66	62	58
Beamwidth, Vertical, degrees	8.6	7.4	8.1	6.9	5.7	5.3	9.5	7.4	5.6
Beam Tilt, degrees	2-14	2-14	2-14	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	20	19	18	21	22	23	18	23
Front-to-Back Ratio at 180°, dB	34	27	29	33	32	29	35	36	32
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25	25	25

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Isolation, Inter-band, dB	28	28	28	25	25	25	25	25	25
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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	200	200	200	200	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-862	880-960	694-960	1695-2200	2300-2400	2490-2690	1427-15181695-21802300-2690		
Gain by all Beam Tilts, average, dBi	15	15.3	15.7	16.6	17.7	17.5	14.9	16.2	17.4
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.6	±1	±0.5	±0.8	±0.4	±0.9	±0.5
Gain by Beam Tilt, average, dBi	2° 14.8 8° 15.1 14° 14.8	2° 15.1 8° 15.5 14° 14.9	2° 15.6 8° 15.9 14° 15.5	2° 16.4 7° 16.8 12° 16.5	2° 17.4 7° 17.8 12° 17.5	2° 17.2 7° 17.7 12° 17.3	2° 14.7 7° 14.9 12° 14.9	2° 16.0 7° 16.3 12° 16.1	2° 17.0 7° 17.6 12° 17.3
Beamwidth, Horizontal Tolerance, degrees	±8.1	±3.5	±6.8	±10.5	±4.9	±7.3	±7.1	±9.3	±4.9
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.5	±1.1	±0.9	±0.2	±0.2	±0.5	±1	±0.5
USLS, beampeak to 20° above beampeak, dB	13	14	16	16	16	16	14	17	18
Front-to-Back Total Power at 180° ± 30°, dB	22	22	23	27	26	24	25	28	26
CPR at Boresight, dB	21	19	20	19	18	20	18	19	21
CPR at Sector, dB	9	12	11	7	5	6	3	6	4

Mechanical Specifications

Effective Projective Area (EPA), lateral 0.35 m² | 3.767 ft²

 $\label{eq:mechanical Tilt Range} \text{0°-12°}$

Wind Loading @ Velocity, frontal 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

Wind Loading @ Velocity, lateral 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

Wind Loading @ Velocity, maximum 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

Wind Loading @ Velocity, rear 880.0 N @ 150 km/h (197.8 lbf @ 150 km/h)

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

Packaging and Weights



 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2935 mm | 115.551 in

 Weight, gross
 82.96 kg | 182.895 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



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.

BSAMNT-M4 – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

