EGRZZH4T4VV65DR8V2

30-port sector antenna, 2x 694-862 (R1), 2x 880-960 (R2), 2x 694-960 (R3), 4x 1427-2690 (Y4/Y6), 8x 1695-2180 (B1-B4), 8x 2490-2690 (Y1 /Y3/Y5/Y7) & 4x 1695-2690 (Y2&Y8) MHz, 65° HPBW, 8x RET.

- All Internal RET actuators are connected in “Cascaded SRET” configuration

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
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	24
RF Connector Quantity, low band	6
RF Connector Quantity, total	30

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v1 | 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 (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)

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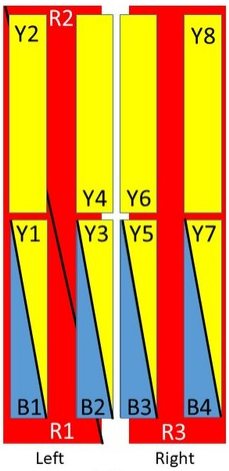
EGRZZH4T4VV65DR8V2

Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	2688 mm | 105.827 in
Net Weight, without mounting kit	69.6 kg | 153.442 lb

Array Layout



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

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-862	1-2	1	CPxxxxxxxxxxxxxxxR1
R2	880-960	3-4	2	CPxxxxxxxxxxxxxxxR2
R3	694-960	5-6	3	CPxxxxxxxxxxxxxxxR3
B1	1695-2180	7-8	4	CPxxxxxxxxxxxxxxxB1
B2	1695-2180	9-10		
B3	1695-2180	11-12		
B4	1695-2180	13-14		
Y1	2490-2690	15-16	5	CPxxxxxxxxxxxxxxxY1
Y3	2490-2690	19-20		
Y5	2490-2690	23-24	6	CPxxxxxxxxxxxxxxxY5
Y7	2490-2690	27-28		
Y4	1427-2690	21-22	7	CPxxxxxxxxxxxxxxxY4
Y6	1427-2690	25-26		
Y2	1695-2690	17-18	8	CPxxxxxxxxxxxxxxxY2
Y8	1695-2690	29-30		

Port Configuration

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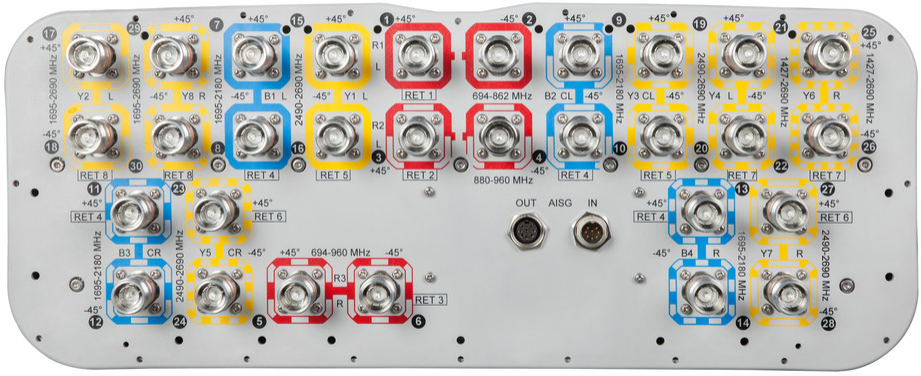

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 1695 – 2180 MHz | 1695 – 2690 MHz | 2490 – 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	B1-B4	B1-B4	Y1/Y3/Y5/Y7	Y2/Y4/Y6/Y8	Y2/Y4/Y6/Y8	Y4/Y6
Frequency Band, MHz	**694–862**	**880–960**	**694–960**	**1695–1880**	**1920–2180**	**2490–2690**	**1695–2180**	**2490–2690**	**1427–1518**
Gain, dBi	15.2	15.4	16.1	16.2	17.1	17.8	16.9	17.6	14.8
Beamwidth, Horizontal, degrees	68	65	67	69	62	57	62	55	71
Beamwidth, Vertical, degrees	8.6	7.4	8.1	7.4	6.6	5.4	7.1	5.4	9.3
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	16	19	17	17	22	18
Front-to-Back Ratio at 180°, dB	32	26	29	32	30	28	34	31	35
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	150	200	200	200

Mechanical Specifications

Mechanical Tilt Range	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	90.6 kg | 199.739 lb

Regulatory Compliance/Certifications

Agency	**Classification**
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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.

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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

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