RRZZV4-65D-R8H4

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

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- RET configuration is factory pre-set for antenna sharing - RET 1, 3, 4, 5 assigned to AISG 2 and RET 2, 6, 7, 8 assigned to AISG 1

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	12
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

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
Internal RET	High band (6) | Low band (2)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)

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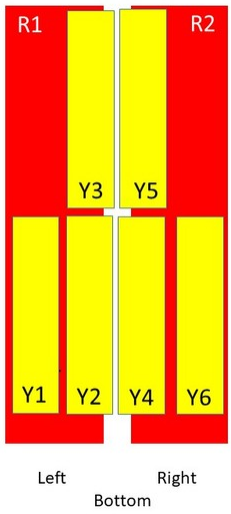
Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	2688 mm | 105.827 in
Net Weight, without mounting kit	52.8 kg | 116.404 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxxxY1
Y2	1427-2690	7-8	4	CPxxxxxxxxxxxxxxxY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxxxxY3
Y4	1427-2690	11-12	6	CPxxxxxxxxxxxxxxxY4
Y5	1695-2690	13-14	7	CPxxxxxxxxxxxxxxxY5
Y6	1695-2690	15-16	8	CPxxxxxxxxxxxxxxxY6

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

Port Configuration

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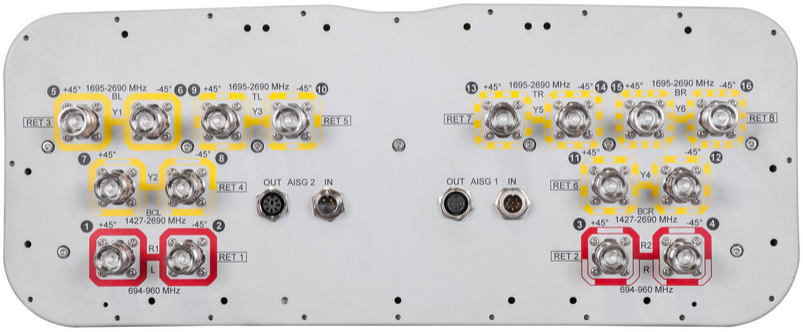

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 1695 – 2690 MHz | 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1-R2	R1-R2	R1-R2	Y2&Y4	Y2&Y4	Y2&Y4	Y1/Y3/Y5/Y6	Y1/Y3/Y5/Y6
Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1427–1518**	**1695–2200**	**2300–2690**	**1695–2200**	**2300–2690**
Gain, dBi	15.6	16	16.1	15.3	17.1	17.7	17.4	17.9
Beamwidth, Horizontal, degrees	72	66	64	67	61	58	60	59
Beamwidth, Vertical, degrees	8.9	7.9	7.4	9.5	7.4	5.6	6.9	5.4
Beam Tilt, degrees	2–14	2–14	2–14	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	18	20	23	18	22	18	24
Front-to-Back Ratio at 180°, dB	36	30	27	35	36	33	33	31
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	25	25	25	25	25

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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	200	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1427–1518**	**1695–2200**	**2300–2690**	**1695–2200**	**2300–2690**
Gain by all Beam Tilts, average, dBi	15.2	15.7	15.7	15	16.2	17.4	16.5	17.4
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4	±0.4	±1	±0.5	±1.1	±0.8
Gain by Beam Tilt, average, dBi	2 ° | 15.2 8 ° | 15.4 14 ° | 15.1	2 ° | 15.5 8 ° | 15.8 14 ° | 15.5	2 ° | 15.6 8 ° | 15.9 14 ° | 15.4	2 ° | 14.8 7 ° | 15.0 12 ° | 15.1	2 ° | 16.1 7 ° | 16.3 12 ° | 16.2	2 ° | 17.1 7 ° | 17.6 12 ° | 17.2	2 ° | 16.3 7 ° | 16.6 12 ° | 16.4	2 ° | 17.0 7 ° | 17.5 12 ° | 17.3
Beamwidth, Horizontal Tolerance, degrees	±5.9	±4.8	±3.7	±6.9	±9.8	±5	±10.5	±7.3
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.5	±0.5	±0.5	±1	±0.4	±0.9	±0.4
USLS, beampeak to 20° above beampeak, dB	16	16	16	16	17	18	16	16
Front-to-Back Total Power at 180° ± 30°, dB	23	22	23	26	28	27	27	24
CPR at Boresight, dB	22	21	19	17	19	21	19	19
CPR at Sector, dB	12	9	13	4	6	6	7	5

Mechanical Specifications

Effective Projective Area (EPA), frontal	1 m² | 10.764 ft²
Effective Projective Area (EPA), lateral	0.35 m² | 3.767 ft²
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

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Length, packed	2935 mm | 115.551 in
Weight, gross	73.8 kg | 162.701 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
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.
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