EGZV4-65D-R6

14-port sector antenna, 2x 694–862, 2x 880-960, 2x 1427-2690 and 8x 1695–2690 MHz, 65° HPBW, 6x 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
- Electrical tilt settings applicable to RF Ports R1, R2, Y2, Y3 & Y5 can be set independently (See Array Layout and RET Table below)
- A common electrical tilt setting is shared by RF Ports Y1/Y4 for MIMO 4X4 purposes

This product will be discontinued on: March 30, 2024

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	10
RF Connector Quantity, low band	4
RF Connector Quantity, total	14

Remote Electrical Tilt (RET) Information

RET Hardware	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 (4) | Low band (2)

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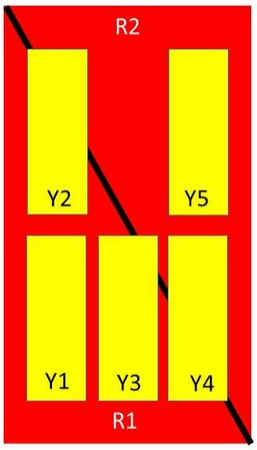
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	395 mm | 15.551 in
Depth	228 mm | 8.976 in
Length	2688 mm | 105.827 in
Net Weight, without mounting kit	46.6 kg | 102.735 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-862	1-2	1	CPxxxxxxxxxxxxxxxR1
R2	880-960	3-4	2	CPxxxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	4	CPxxxxxxxxxxxxxxxY1
Y4	1695-2690	11-12		
Y3	1427-2690	9-10	3	CPxxxxxxxxxxxxxxxY3
Y2	1695-2690	7-8	6	CPxxxxxxxxxxxxxxxY2
Y5	1695-2690	13-14	5	CPxxxxxxxxxxxxxxxY5

(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 – 862 MHz | 880 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W @ 50 °C

Electrical Specifications

	R1	R2	Y1-Y2/Y4-Y5	Y1-Y2/Y4-Y5	Y1-Y2/Y4-Y5	Y1-Y2/Y4-Y5	Y3	Y3
Frequency Band, MHz	**694–862**	**880–960**	**1695–1920**	**1920–2200**	**2300–2500**	**2500–2690**	**1427–1518**	**1695–2690**
Gain, dBi	16.3	16.5	17	17.8	18.3	17.7	15.3	17.6
Beamwidth, Horizontal, degrees	65	64	68	64	62	63	68	59
Beamwidth, Vertical, degrees	8.5	7.4	7.2	6.5	5.7	5.4	9.3	6.8
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	20	16	17	16	16	15	14
Front-to-Back Ratio at 180°, dB	35	31	33	35	34	32	32	35
Isolation, Cross Polarization, dB	27	27	27	27	27	27	25	25

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Isolation, Inter-band, dB	28	28	25	25	25	25	28	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
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	250	250	200	200	200	200	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	**694–862**	**880–960**	**1695–1920**	**1920–2200**	**2300–2500**	**2500–2690**	**1427–1518**	**1695–2690**
Gain by all Beam Tilts, average, dBi	16.1	16.3	16.5	17.3	17.7	17.2	15	16.8
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.6	±0.6	±0.7	±0.5	±0.5	±1.1
Gain by Beam Tilt, average, dBi	2 ° | 15.8 7 ° | 16.1 12 ° | 16.1	2 ° | 15.9 7 ° | 16.4 12 ° | 16.4	2 ° | 16.3 7 ° | 16.6 12 ° | 16.5	2 ° | 17.1 7 ° | 17.4 12 ° | 17.2	2 ° | 17.6 7 ° | 17.9 12 ° | 17.4	2 ° | 17.1 7 ° | 17.3 12 ° | 16.9	2 ° | 14.9 7 ° | 15.1 12 ° | 14.9	2 ° | 16.7 7 ° | 17.0 12 ° | 16.7
Beamwidth, Horizontal Tolerance, degrees	±2.7	±2.3	±4.9	±5.7	±5.4	±5.4	±7.7	±8.6
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.4	±0.4	±0.5	±0.3	±0.2	±0.4	±1.4
USLS, beampeak to 20° above beampeak, dB	18	20	14	16	15	14	11	13
Front-to-Back Total Power at 180° ± 30°, dB	27	23	24	27	28	27	27	29
CPR at Boresight, dB	16	17	19	22	19	20	17	20
CPR at Sector, dB	10	8	8	6	9	10	7	4

Mechanical Specifications

Wind Loading @ Velocity, frontal	574.0 N @ 150 km/h (129.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	422.0 N @ 150 km/h (94.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	981.0 N @ 150 km/h (220.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	590.0 N @ 150 km/h (132.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	505 mm | 19.882 in
Depth, packed	386 mm | 15.197 in
Length, packed	2821 mm | 111.063 in
Weight, gross	65.7 kg | 144.844 lb

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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-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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance