EGZHHTT-65B-R6

14-port sector antenna, 2x 694-862 (R1), 2x 880-960 (R2), 2x 1427-2690 (Y2), 4x 1695-2180 (B1-B2), 4x 2490-2690 (Y1 & Y3) MHz, 65° HPBW, 6x RET. Y1 & Y3 share a common 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
- Retractable tilt indicator rods

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid 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	2 female | 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) | Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

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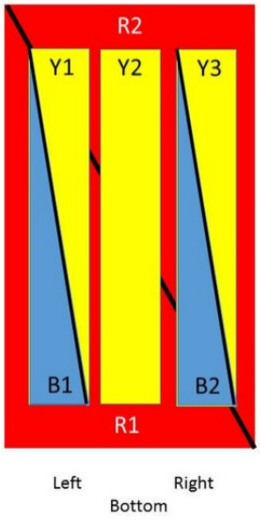
EGZHHTT-65B-R6

Dimensions

Width	395 mm | 15.551 in
Depth	228 mm | 8.976 in
Length	1980 mm | 77.953 in
Net Weight, antenna only	39.5 kg | 87.082 lb

Array Layout

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
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxxB1
B2	1695-2180	7-8	4	CPxxxxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxxxY1
Y3	2490-2690	13-14		
Y2	1427-2690	11-12	6	CPxxxxxxxxxxxxxxxY2

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

Port Configuration

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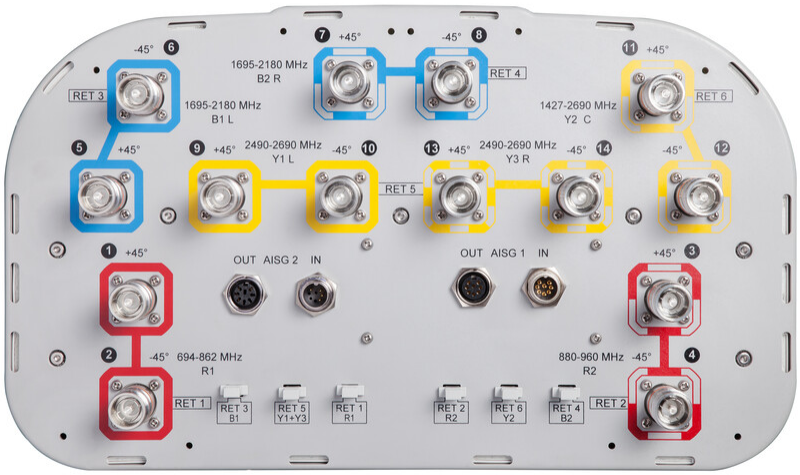
EGZHHTT-65B-R6



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 694 – 862 MHz | 880 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**698–806**	**790–862**	**880–960**	**1695–1990**	**1920–2180**	**2490–2690**
Gain at Mid Tilt, dBi	14.6	14.9	14.9	17.4	18	17.8
Beamwidth, Horizontal, degrees	66	64	64	68	61	59
Beamwidth, Vertical, degrees	12	11.2	10.2	5.3	4.9	4.3
Beam Tilt, degrees	2–14	2–14	2–14	2–12	2–12	2–12
USLS (First Lobe), dB	16	17	16	16	16	21
Front-to-Back Ratio at 180°, dB	31	34	32	33	35	29
Front-to-Back Total Power at 180° ± 30°, dB	26	25	23	24	26	24
CPR at Boresight, dB	16	16	15	18	18	16

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CPR at Sector, dB	10	10	8	6	5	9
Isolation, Cross Polarization, dB	28	28	28	28	28	28
Isolation, Inter-band, dB	28	28	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200

Electrical Specifications

Frequency Band, MHz	**1427–1518**	**1695–1990**	**1920–2300**	**2300–2500**	**2490–2690**
Gain at Mid Tilt, dBi	16.3	17.1	18.2	18.8	18.3
Beamwidth, Horizontal, degrees	64	68	60	53	59
Beamwidth, Vertical, degrees	7	5.8	5.2	4.6	4.3
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	15	16	18	16
Front-to-Back Ratio at 180°, dB	32	35	35	32	33
Front-to-Back Total Power at 180° ± 30°, dB	26	29	28	28	28
CPR at Boresight, dB	20	20	21	21	24
CPR at Sector, dB	6	8	7	5	5
Isolation, Cross Polarization, dB	28	28	28	28	28
Isolation, Inter-band, dB	28	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	398.0 N @ 150 km/h (89.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	290.0 N @ 150 km/h (65.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	681.0 N @ 150 km/h (153.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	409.0 N @ 150 km/h (91.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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EGZHHTT-65B-R6

Packaging and Weights

Width, packed	505 mm | 19.882 in
Depth, packed	386 mm | 15.197 in
Length, packed	2123 mm | 83.583 in
Weight, gross	56 kg | 123.459 lb

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-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

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