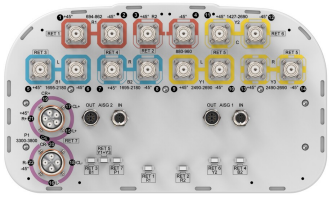
EGZHHTTS4-65B-R7V2



22-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° 8x 3300-3800 (P1) HPBW, 7X RET. Y1 & Y3 share common RET.

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Retractable tilt indicator rods
- Two cluster connectors for the S4 beam-forming array, including 2 MQ connectors MQ4/MQ5

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
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female | MQ4 | MQ5
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	10
RF Connector Quantity, low band	4
RF Connector Quantity, total	22

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 (1) | Low band (2) | Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W

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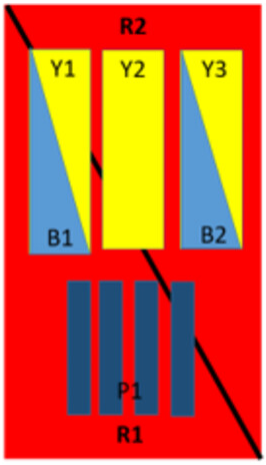
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	395 mm | 15.551 in
Depth	228 mm | 8.976 in
Length	2100 mm | 82.677 in
Net Weight, without mounting kit	42.9 kg | 94.578 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	CPxxxxxxxxxxxxxxR2
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxB1
B2	1695-2180	7-8	4	CPxxxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxxY1
Y3	2490-2690	13-14		
Y2	1427-2690	11-12	6	CPxxxxxxxxxxxxxxY2
P1	3300-3800	15-22	7	CPxxxxxxxxxxxxxxP1

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

Port Configuration

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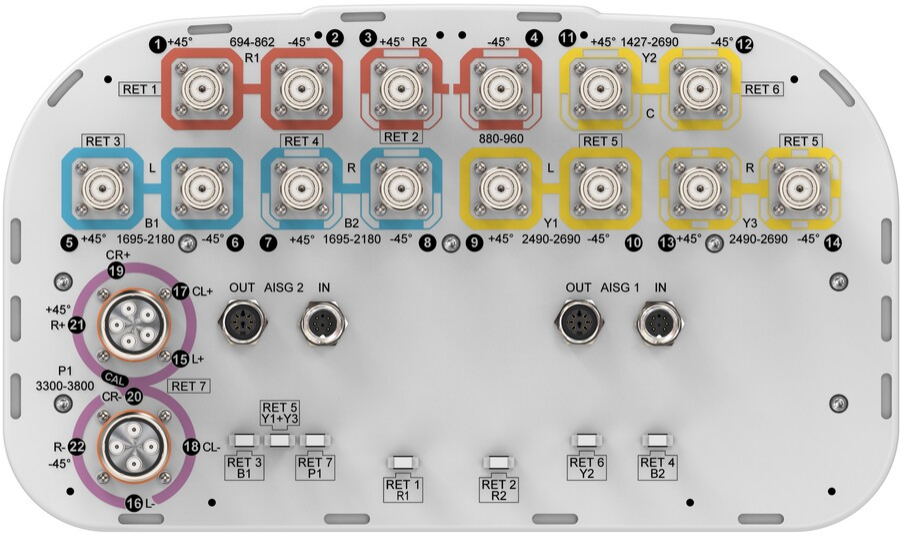

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 3300 – 3800 MHz | 694 – 862 MHz | 880 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**694–862**	**880–960**	**1695–2180**	**2490–2690**	**1427–1518**	**1695–2200**	**2300–2690**	**3300–3800**
Gain, dBi	14.7	15	16.5	16.7	14.6	16.3	17	15.1
Beamwidth, Horizontal, degrees	65	64	66	60	70	63	56	91
Beamwidth, Vertical, degrees	10.5	8.9	7.1	5.6	9.3	7.5	5.8	7.1
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	22	21	18	19	16	21	15
Front-to-Back Ratio at 180°, dB	35	33	32	30	32	32	34	27
Coupling level, Amp, Antenna port to Cal port, dB								26
Coupling level, max Amp Δ,								±2

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Antenna port to Cal port, dB								
Coupler, max Amp Δ, Antenna port to Cal port, dB								0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees								7
Isolation, Cross Polarization, dB	28	28	28	28	28	27	27	25
Isolation, Inter-band, dB	28	28	28	28	28	28	28	19
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	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	200	200	250	250	75

Electrical Specifications, BASTA

Frequency Band, MHz	**694–862**	**880–960**	**1695–2180**	**2490–2690**	**1427–1518**	**1695–2200**	**2300–2690**	**3300–3800**
Gain by all Beam Tilts, average, dBi	14.5	14.7	16	16.1	14.4	15.4	16.6	14.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.8	±0.7	±0.4	±1.3	±0.7	±0.6
Beamwidth, Horizontal Tolerance, degrees	±2.5	±1.9	±5.4	±5.8	±4.2	±5.9	±5.9	±14.5
Beamwidth, Vertical Tolerance, degrees	±1.1	±0.5	±0.7	±0.2	±0.5	±1	±0.6	±0.6
USLS, beampeak to 20° above beampeak, dB	17	18	15	14	15	15	16	15
Front-to-Back Total Power at 180° ± 30°, dB	26	24	24	24	26	28	29	21
CPR at Boresight, dB	19	16	17	18	14	22	24	15
CPR at Sector, dB	12	8	7	10	8	8	6	9

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	**3300–3800**
Gain, dBi	16.2
Beamwidth, Horizontal, degrees	60
Beamwidth, Vertical, degrees	7.1
USLS (First Lobe), dB	16

Electrical Specifications, Service Beam

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Frequency Band, MHz	**3300–3800**
Steered 0° Gain, dBi	19.8
Steered 0° Beamwidth, Horizontal, degrees	25
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	28
Steered 0° Horizontal Sidelobe, dB	12
Steered 30° Gain, dBi	19.4
Steered 30° Beamwidth, Horizontal, degrees	25
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	27
Steered 30° Horizontal Sidelobe, dB	10

Electrical Specifications, Soft Split

Frequency Band, MHz	**3300–3800**
Gain, dBi	19.2
Beamwidth, Horizontal, degrees	29
CPR at Beampeak, dB	17
Front-to-Back Total Power at 180° ± 30°, dB	27
Horizontal Sidelobe, dB	17

Mechanical Specifications

Wind Loading @ Velocity, frontal	427.0 N @ 150 km/h (96.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	312.0 N @ 150 km/h (70.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	730.0 N @ 150 km/h (164.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	439.0 N @ 150 km/h (98.7 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	2233 mm | 87.913 in
Weight, gross	58.6 kg | 129.191 lb

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Weight, net	42.9 kg | 94.578 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/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