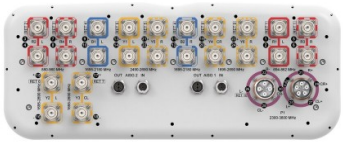
EEGGHHTTV4Q465DR10



32-port sector antenna, 4 x 694-862 MHz, 4 x 880-960 MHz, 4 x 1695-2180 MHz, 4 x 2490-2690 MHz, and 8 x 1695-2690 MHz, 65° HPBW, 8 x 2300-3800 MHz, 90° HPBW, 10 x RET.

- Includes 1x 4-column array for 2300-3800 MHz and callibration port. Column spacing optimized to support soft split beamforming
- Design for site sharing for both FDD and TDD applications
- New aerodynamic endcaps for wind load optimization
- RET configuration is factory pre-set for antenna sharing

General Specifications

Antenna Type	Sector and beamforming
Band	Multiband
Calibration Connector Interface	MQ5
Calibration Connector Quantity	1
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
RF Connector Interface	4.3-10 Female | MQ4 | MQ5
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	16
RF Connector Quantity, low band	8
RF Connector Quantity, total	32

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 (3) | Mid band (6)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

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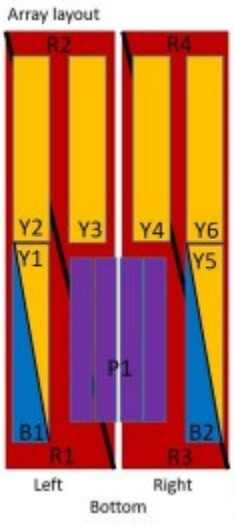
Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	2688 mm | 105.827 in
Net Weight, antenna only	71.4 kg | 157.41 lb

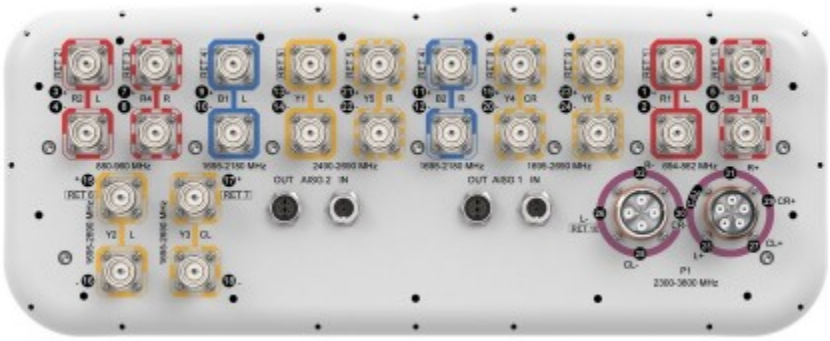
Array Layout



Array ID	Freq (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-862	1-2	65°	1	AISG1	CPxxxxxxxxxxxxxxxR1
R3	694-862	5-6	65°			
R2	880-960	3-4	65°	2	AISG2	CPxxxxxxxxxxxxxxxR2
R4	880-960	7-8	65°	3	AISG2	CPxxxxxxxxxxxxxxxR4
B1	1695-2180	9-10	65°	4	AISG2	CPxxxxxxxxxxxxxxxB1
B2	1695-2180	11-12	65°			
Y1	2490-2690	13-14	65°	5	AISG2	CPxxxxxxxxxxxxxxxY1
Y5	2490-2690	21-22	65°			
Y2	1695-2690	15-16	65°	6	AISG2	CPxxxxxxxxxxxxxxxY2
Y3	1695-2690	17-18	65°	7	AISG2	CPxxxxxxxxxxxxxxxY3
Y4	1695-2690	19-20	65°	8	AISG1	CPxxxxxxxxxxxxxxxY4
Y6	1695-2690	23-24	65°	9	AISG1	CPxxxxxxxxxxxxxxxY6
P1	2300-3800	25-32	90°	10	AISG1	CPxxxxxxxxxxxxxxxP1

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2180 MHz | 1695 – 2690 MHz | 2300 – 3800 MHz | 2490 – 2690

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	MHz | 694 – 862 MHz | 880 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,600 W @ 50 °C

Electrical Specifications

	R1,R3	R2,R4	B1,B2	Y1,Y5	Y2,Y3,Y4,Y6	Y2,Y3,Y4,Y6	P1	P1
Frequency Band, MHz	**694–862**	**880–960**	**1695–2180**	**2490–2690**	**1695–2180**	**2300–2690**	**2300–2690**	**3300–3800**
RF Port	1,2,5,6	3,4,7,8	9-12	13,14,21,22	15-20,23-24	15-20,23-24	25-32	25-32
Gain at Mid Tilt, dBi	16	16.1	16.3	17.6	16.9	18.1	15.4	16.1
Beamwidth, Horizontal, degrees	72	75	70	60	66	54	93	66
Beamwidth, Vertical, degrees	8.1	7	7.1	5.4	6.8	5.3	5.9	5.5
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	17	19	19	19	19	15	15
Front-to-Back Ratio at 180°, dB	28	28	34	33	35	31	31	31
Front-to-Back Total Power at 180° ± 30°, dB	21	21	27	27	28	26	25	25
Coupling level, Amp, Antenna port to Cal port, dB							-26	-26
Coupling level, max Amp Δ, Antenna port to Cal port, dB							±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB							0.9	0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees							7	7
Isolation, Cross Polarization, dB	25	25	25	25	25	25	23	23
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
Isolation, Co-polarization, dB							20	20
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	-140	-140
Input Power per Port at 50°C, maximum, watts	250	250	200	150	250	200	75	75

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	**2300–2690**	**3300–3800**

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Gain, dBi	18.1	17.2
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Horizontal at 10 dB, degrees	115	111
Beamwidth, Vertical, degrees	5.9	5.5
Front-to-Back Total Power at 180° ± 30°, dB	30	26
USLS (First Lobe), dB	16	15

Electrical Specifications, Envelope Pattern

Frequency Band, MHz	**2300–2690**	**3300–3800**
Gain, dBi	20.9	21.6
Beamwidth, Horizontal at 10 dB, degrees	125	122
Beamwidth, Vertical at 3 dB, degrees	5.9	5.5
Front-to-Back Total Power at 180° ± 30°, dB	30	29
USLS (First Lobe), dB	17	16

Electrical Specifications, Service Beam

Frequency Band, MHz	**2300–2690**	**3300–3800**
Steered 0° Gain, dBi	20.9	21.7
Steered 0° Beamwidth, Horizontal, degrees	25	19
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	33	32
Steered 0° Horizontal Sidelobe, dB	12	12
Steered 30° Gain, dBi	20.4	19.5
Steered 30° Beamwidth, Horizontal, degrees	28	23
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	32	28

Electrical Specifications, Soft Split

Frequency Band, MHz	**2300–2690**
Gain, dBi	20.2
Beamwidth, Horizontal,	31

degrees	
Front-to-Back Total Power at 180° ± 30°, dB	32
Horizontal Sidelobe, dB	19

Mechanical Specifications

Wind Loading @ Velocity, frontal	970.0 N @ 150 km/h (218.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	304.0 N @ 150 km/h (68.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,162.0 N @ 150 km/h (261.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	667.0 N @ 150 km/h (149.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm | 22.244 in
Depth, packed	318 mm | 12.52 in
Length, packed	2809 mm | 110.591 in
Weight, gross	90.1 kg | 198.636 lb

Regulatory Compliance/Certifications

Agency	**Classification**
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
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