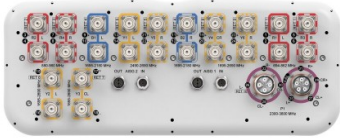


EEGGHHTTV4Q465DR10



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 calibration 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)

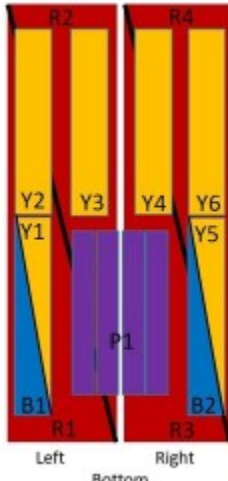
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Dimensions

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

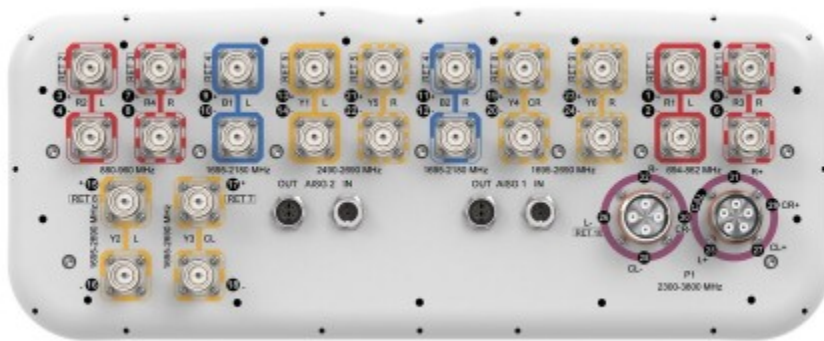
Array layout



Array ID	Freq (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-862	1-2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R3	694-862	5-6	65°			
R2	880-960	3-4	65°			
R4	880-960	7-8	65°			
B1	1695-2180	9-10	65°	4	AISG2	CPxxxxxxxxxxxxxxxxB1
B2	1695-2180	11-12	65°			
Y1	2490-2690	13-14	65°	5	AISG2	CPxxxxxxxxxxxxxxxxY1
Y5	2490-2690	21-22	65°			
Y2	1695-2690	15-16	65°			
Y3	1695-2690	17-18	65°			
Y4	1695-2690	19-20	65°			
Y6	1695-2690	23-24	65°			
P1	2300-3800	25-32	90°	10	AISG1	CPxxxxxxxxxxxxxxxxP1

(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
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

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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
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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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant
UK-ROHS	Compliant



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 4.6 kg | 10.141 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

