

RRZZHHTT-65B-R8NV3



16-port sector antenna, 4x 694–960, 4x 1427–2690, 4x 1695-2180 and 4x 2490-2690 MHz, 65° HPBW, 8x RET

- SEED® antenna providing high gain and improved efficiency
- High radiation and pattern efficiency for improved coverage area, capacity or reduced power consumption for a given area
- Reduces the amount of aluminum used to minimize CO2 release
- Innovative aerodynamic shape optimized for reduced wind loading in every direction
- 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
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	GFRPP
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) 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	430 mm 16.929 in
Depth	197 mm 7.756 in
Length	2100 mm 82.677 in
Net Weight, antenna only	37.3 kg 82.232 lb

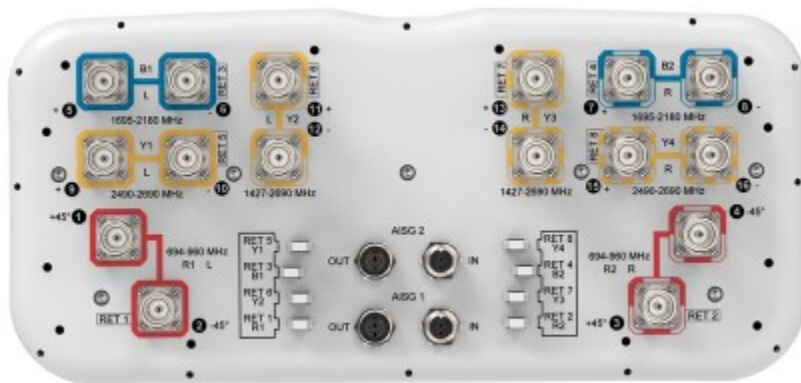
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxR2
B1	1695-2180	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxxxB1
B2	1695-2180	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxxxxB2
Y1	2490-2690	9 - 10	65°	5	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	11 - 12	65°	6	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1427-2690	13 - 14	65°	7	AISG1	CPxxxxxxxxxxxxxxxxY3
Y4	2490-2690	15 - 16	65°	8	AISG1	CPxxxxxxxxxxxxxxxxY4

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 1695 – 2180 MHz 2490 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,200 W @ 50 °C

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Electrical Specifications

	R1,R2	R1,R2	R1,R2	B1,B2	B1,B2	Y1,Y4
Frequency Band, MHz	698–806	790–894	890–960	1695–1995	1920–2180	2490–2690
RF Port	1-4	1-4	1-4	5-8	5-8	9,10,15,16
Gain at Mid Tilt, dBi	14.6	15.3	15.8	17.8	18.4	19.4
Beamwidth, Horizontal, degrees	73	63	57	71	68	63
Beamwidth, Vertical, degrees	10.4	9.5	8.7	5.6	5	4
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	18	16	15	18	17
Front-to-Back Ratio at 180°, dB	27	28	30	31	30	29
Front-to-Back Total Power at 180° ± 30°, dB	20	21	21	25	25	25
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200

Electrical Specifications

	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	1427–1518	1695–1995	1920–2300	2300–2500	2490–2690
RF Port	11-14	11-14	11-14	11-14	11-14
Gain at Mid Tilt, dBi	15.5	17.9	18.6	19.7	20.1
Beamwidth, Horizontal, degrees	81	64	62	57	53
Beamwidth, Vertical, degrees	7.4	5.8	5.2	4.4	4
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	14	18	19	15	17
Front-to-Back Ratio at 180°, dB	32	35	33	36	37
Front-to-Back Total Power at 180° ± 30°, dB	22	25	27	27	29
Isolation, Cross Polarization,	25	26	26	26	26

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dB					
Isolation, Inter-band, dB	25	26	26	26	26
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	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200

Mechanical Specifications

BASTA Version, mechanical	BASTA v12
Wind Loading @ Velocity, frontal	494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	780.0 N @ 150 km/h (175.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	349 mm 13.74 in
Length, packed	2272 mm 89.449 in
Weight, gross	47 kg 103.617 lb

Regulatory Compliance/Certifications

Agency	Classification
UK-ROHS	Compliant

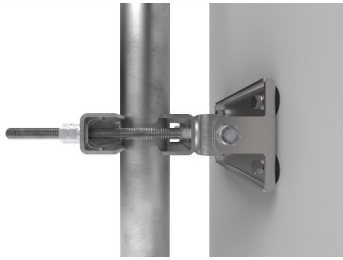
Included Products

BSAMNT-2F	–	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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BSAMNT-2F



Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

Product Classification

Product Type Fixed tilt 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 3.8 kg | 8.378 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 4 kg | 8.818 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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-2F

