3FF6VV-2010B-R2B

36 port multibeam ultra-high capacity antenna, 3 beams for 617-894 MHz, 6 beams for 1695-2690 MHz, 4 ports for each beam,1x RET per band

- Ultra-high capacity antenna provides increased throughput for special events or very high traffic locations
- Provides higher capacity than single radio massive MIMO solution
- Multibeam antenna with 3x LB beams, and 6x MB beam
- All beams support 4T4R service or 2T2R service for 2 licensed bands
- One RET and one SBT on each band for remote optimization and RET control

General Specifications

Antenna Type	Multi-beam
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
RF Connector Location	Bottom
RF Connector Quantity, mid band	24
RF Connector Quantity, low band	12
RF Connector Quantity, total	36

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 Bias Tee	Port 1 | Port 13
Internal RET	Low band (1) | Mid band (1)

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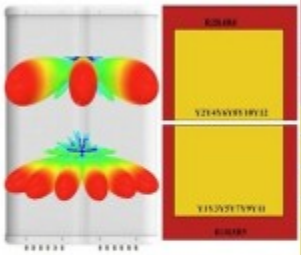
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W

Dimensions

Width	1302 mm | 51.26 in
Depth	236 mm | 9.291 in
Length	1745 mm | 68.701 in
Net Weight, without mounting kit	110 kg | 242.508 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET	AISG No.	SBT RF PORT	SBT No.	RET UID
R1	617-894	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxR1
R2	617-894	3 - 4					
R3	617-894	5 - 6					
R4	617-894	7 - 8					
R5	617-894	9 - 10					
R6	617-894	11 - 12					
Y1	1695-2690	13 - 14	2	AISG2	13	2	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	15 - 16					
Y3	1695-2690	17 - 18					
Y4	1695-2690	19 - 20					
Y5	1695-2690	21 - 22					
Y6	1695-2690	23 - 24					
Y7	1695-2690	25 - 26					
Y8	1695-2690	27 - 28					
Y9	1695-2690	29 - 30					
Y10	1695-2690	31 - 32					
Y11	1695-2690	33 - 34					
Y12	1695-2690	35 - 36					

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 617 – 894 MHz
Polarization	±45°
Total Input Power, maximum	2,880 W

Electrical Specifications

	R1-R4	R1-R4	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	**617–698**	**698–894**	**1695–1990**	**1920–2180**	**2300–2690**
RF Port	1-12	1-12	13-36	13-36	13-36
Gain, Maximum, dBi	15.5	16.3	21.1	21.5	22.2
Beam Centers, Horizontal, degrees	±0 ±30	±0 ±30	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40
Beamwidth, Horizontal, degrees	26	22	11	11	9
Beamwidth, Vertical, degrees	30.4	26.7	13.4	12.3	10.1
Beam Tilt, degrees	6–14	6–14	4–10	4–10	4–10
USLS (First Lobe), dB	17	16	9	9	9
Front-to-Back Ratio at 180°,	27	33	31	29	27

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dB					
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25
Isolation, Beam to Beam, dB	15	16	19	19	18
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, maximum, watts	120	120	120	120	120

Mechanical Specifications

Wind Loading @ Velocity, frontal	2,988.0 N @ 150 km/h (671.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	659.0 N @ 150 km/h (148.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	2,988.0 N @ 150 km/h (671.7 lbf @ 150 km/h)

Packaging and Weights

Width, packed	1590 mm | 62.598 in
Depth, packed	655 mm | 25.787 in
Length, packed	2284 mm | 89.921 in
Weight, gross	338 kg | 745.162 lb

Regulatory Compliance/Certifications

Agency	**Classification**
UK-ROHS	Compliant

Included Products

BSAMNT-8	–	Wide Profile Antenna Down tilt Mounting Kit for 3.0 - 4.5 in (75 - 115mm) 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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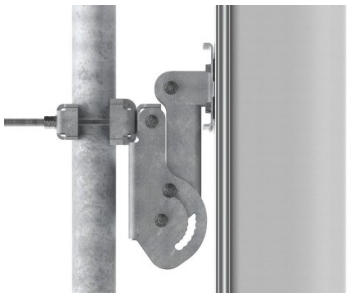
BSAMNT-8



Wide Profile Antenna Down tilt Mounting Kit for 3.0 - 4.5 in (75 - 115mm) 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	75 mm | 2.953 in
Weight, net	17.1 kg | 37.699 lb

Material Specifications

Material Type	Galvanized steel

Packaging and Weights

Included	Brackets | Hardware
Packaging quantity	1
Weight, gross	18.1 kg | 39.904 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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

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BSAMNT-8

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