

12P-4L8M-B6-V3



12-port sector antenna, 4x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 6x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Antenna with tilt scale indicators and integrated pluggable RET

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	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	12

Remote Electrical Tilt (RET) Information

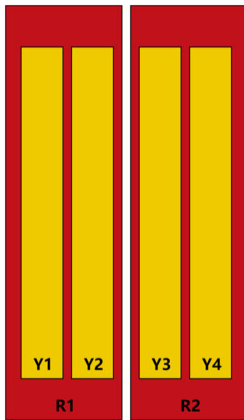
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (4)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

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Width	499 mm 19.646 in
Depth	199 mm 7.835 in
Length	2000 mm 78.74 in
Net Weight, antenna only	24.8 kg 54.675 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
Y1	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	65°	5	AISG1	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12	65°	6	AISG1	CPxxxxxxxxxxxxxxxxY4

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	694–806	790–896	880–960	1695–1880	1850–1990	1920–2200	2300–2490	2500–2690
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12	5-12
Gain, dBi	15.2	15.6	15.7	17.4	17.8	17.9	18.2	18.6
Beamwidth, Horizontal, degrees	63	67	66	70	68	67	61	58
Beamwidth, Vertical, degrees	11.2	9.8	9.1	6.2	5.9	5.6	4.8	4.2
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	19	18	16	16	18	20	22	19
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	26	26	27	27	27	27	24	27
Isolation, Cross Polarization,	25	25	25	25	25	25	25	25

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dB

Isolation, Inter-band, dB	25	25	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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694–806	790–896	880–960	1695–1880	1850–1990	1920–2200	2300–2490	2500–2690
Gain by all Beam Tilts, average, dBi	14.9	15.3	15.4	16.9	17.3	17.5	17.7	18
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4	±0.8	±0.6	±0.7	±0.9	±0.9
Beamwidth, Horizontal Tolerance, degrees	±7	±8	±9	±8	±8	±7	±7	±5
Beamwidth, Vertical Tolerance, degrees	±1.1	±0.7	±0.6	±0.4	±0.2	±0.4	±0.3	±0.3
CPR at Boresight, dB	23	22	21	20	21	22	20	19

Mechanical Specifications

Wind Loading @ Velocity, frontal	560.0 N @ 150 km/h (125.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	259.0 N @ 150 km/h (58.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	625.0 N @ 150 km/h (140.5 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	593 mm 23.346 in
Depth, packed	317 mm 12.48 in
Length, packed	2197 mm 86.496 in
Weight, gross	36.4 kg 80.248 lb

Regulatory Compliance/Certifications

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

Included Products

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BSAMNT-B95-04

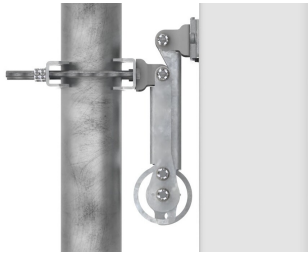
- Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

BSAMNT-B95-04



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 4.5 kg | 9.921 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 2

Regulatory Compliance/Certifications

Agency

CE Compliant with the relevant CE product directives
ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

Classification

