

### 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	CPxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxR2
¥1	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX
Y2	1695-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxxX2
Y3	1695-2690	9 - 10	65°	5	AISG1	CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX
¥4	1695-2690	11 - 12	65°	6	AISG1	CPxxxxxxxxxxxxxxXX

(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	1695-188	0 1850–1990	0 1920-220	0 2300-249	0 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 Page 2 of 4

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dB

UD .								
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,	250	250	250	200	200	200	200	200
maximum, watts								

## Electrical Specifications, BASTA

Frequency Band, MHz	694-806	790-896	880-960	1695-188	0 1850–199	0 1920–220	0 2300-249	0 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
ISO 9001:2015
UK-ROHS

**Classification** Designed, manufactured and/or distributed under this quality management system 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

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