

4P-4L-C2-V4



4-port sector antenna, 4x 694–960 MHz, 65° HPBW, 2x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Retractable tilt indicator rods

General Specifications

Antenna Type	Sector
Band	Single band
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, low band	4
RF Connector Quantity, total	4

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)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

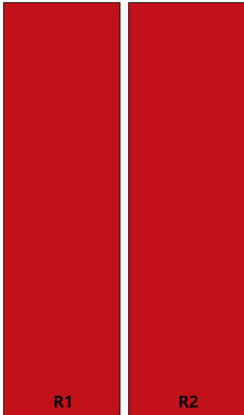
Dimensions

Width	427 mm 16.811 in
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Depth	160 mm 6.299 in
Length	2497 mm 98.307 in
Net Weight, antenna only	25.5 kg 56.218 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	CPxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxR2

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

Port Configuration



Electrical Specifications

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Impedance	50 ohm
Operating Frequency Band	694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W

Electrical Specifications

	R1,R2	R1,R2	R1,R2
Frequency Band, MHz	698–806	790–894	890–960
RF Port	1-4	1-4	1-4
Gain, dBi	15.7	16.2	16.5
Beamwidth, Horizontal, degrees	67	61	55
Beamwidth, Vertical, degrees	8.7	8	7.5
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	16	16	17
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	24	27	26
Isolation, Cross Polarization, dB	25	25	25
Isolation, Inter-band, dB	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	790–894	890–960
Gain by all Beam Tilts, average, dBi	15.5	16	16.3
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.3
Beamwidth, Horizontal Tolerance, degrees	±4	±5	±5
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.5
CPR at Boresight, dB	19	18	18

Mechanical Specifications

Wind Loading @ Velocity, frontal	965.0 N @ 150 km/h (216.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	402.0 N @ 150 km/h (90.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,174.0 N @ 150 km/h (263.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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Packaging and Weights

Width, packed	522 mm 20.551 in
Depth, packed	277 mm 10.906 in
Length, packed	2697 mm 106.181 in
Weight, gross	37 kg 81.571 lb

Regulatory Compliance/Certifications

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

Included Products

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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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