

20-port sector antenna, 4x 617-894, 8x 1695-2690 MHz 65° HPBW and 8x 2300-4200 MHz, Beamformer, 7x RET

- Includes 1x 4-Column Array for 2300-4200MHz and calibration port
- Q4 array uses M-LOC cluster connectors
- New aerodynamic endcaps for wind load optimization

General Specifications

Antenna Type Sector- and beamforming

BandMultibandCalibration Connector InterfaceM-LOCCalibration Connector Quantity1

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female | M-LOC

RF Connector LocationBottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 20

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 High band (1) | Low band (2) | Mid band (4)

Power Consumption, active state, maximum 8 W
Power Consumption, idle state, maximum 1 W

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Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

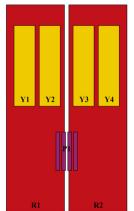
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2100 mm | 82.677 in

Net Weight, antenna only 41.2 kg | 90.83 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1
R2	617-894	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxx4
P1	2300-4200	13 - 20	7	AISG1	CPxxxxxxxxxxxxxxP1

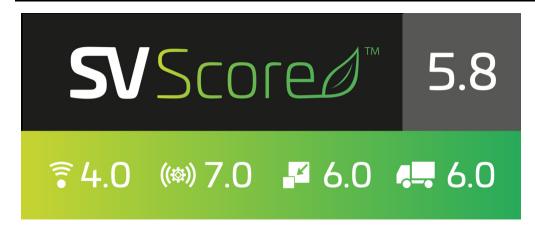
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Logo Image





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 2300 – 4200 MHz | 617 – 894 MHz

Polarization ±45°

Total Input Power, maximum $1,400~\mathrm{W} \ @ 50~\mathrm{^{\circ}C}$

Electrical Specifications

	R1,R2	R1,R2	Y1,Y2,Y3,Y	4Y1,Y2,Y3,Y	4Y1,Y2,Y3,Y	4P1	P1	P1
Frequency Band, MHz	617-698	698-894	1695-1920	1920-2200	2490-2690	2300-2690	3300-3800	3700-4200
RF Port	1-4	1-4	5-12	5-12	5-12	13-20	13-20	13-20
Gain, dBi	14.1	14.7	15.8	16.8	17	13.9	15.2	14.9
Beamwidth, Horizontal, degrees	66	56	65	60	57	81	63	63
Beamwidth, Vertical, degrees	11.8	10.1	6.7	6	5.1	9.4	6.7	6.3
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	16	18	19	16	18	16
Front-to-Back Ratio at 180°, dB	28	31	32	35	29	30	27	24
Front-to-Back Total Power at 180° ± 30°, dB	22	22	26	28	23	24	22	20
Coupling level, Amp, Antenna port to Cal port, dB						-26	-26	-26
Coupling level, max Amp Δ , Antenna port to Cal port, dB						±2	±2	±2
Coupler, max Amp Δ , Antenna port to Cal port, dB						0.9	0.9	0.9

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Coupler, max Phase Δ, Antenna port to Cal port, degrees						7	7	7
CPR at Boresight, dB	19	19	19	22	17	15	15	13
CPR at Sector, dB	10	8	7	7	4	7	6	3
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
Isolation, Co-polarization, dB						18	18	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	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	-140	-140	-140
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	80	80	80

Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-894	1695-1920	1920-2200	2490-2690	2300-2690	3300-3800	3700-4200
Gain by all Beam Tilts, average, dBi	14	14.6	15.7	16.6	16.8	13.8	15	14.7
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.8	±0.5	±0.5	±0.8	±0.8	±0.9
Beamwidth, Horizontal Tolerance, degrees	±6	±6	±6	±6	±4	±31	±13	±11
Beamwidth, Vertical Tolerance, degrees	±0.7	±1	±0.5	±0.5	±0.3	±0.8	±0.6	±0.6
USLS, beampeak to 20° above beampeak, dB	18	16	14	15	15	14	13	12

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	2300-269	0 3300-380	0 3700-4200
Gain, dBi	15.7	15.9	15.7
Beamwidth, Horizontal, degrees	65	65	65
Beamwidth, Horizontal at 10 dB, degrees	114	119	123
Beamwidth, Vertical, degrees	9.3	6.8	6.4
Front-to-Back Total Power at 180° ± 30°, dB	27	23	21
USLS (First Lobe), dB	18	17	16

Electrical Specifications, Envelope Pattern

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Frequency Band, MHz	2300-269	90 3300-38	00 3700-4200
Front-to-Back Total Power at 180° ± 30°, dB	28	26	23
USLS (First Lobe), dB	19	20	19
Electrical Specifications, Service Beam			
Frequency Band, MHz	2300-269	90 3300-38	00 3700-4200
Steered 0° Gain, dBi	19.1	20.4	20.3
Steered 0° Beamwidth, Horizontal, degrees	24	19	18
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	31	27	26
Steered 0° Horizontal Sidelobe, dB	14	13	12
Steered 30° Gain, dBi	17.9	18.7	18.2
Steered 30° Beamwidth, Horizontal, degrees	30	21	19

29

25

22

Mechanical Specifications

Steered 30° Front-to-Back

Total Power at 180° ± 30°, dB

Wind Loading @ Velocity, frontal	728.0 N @ 150 km/h (163.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	223.0 N @ 150 km/h (50.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	873.0 N @ 150 km/h (196.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	501.0 N @ 150 km/h (112.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	309 mm 12.165 in
Length, packed	2287 mm 90.039 in
Weight, gross	55.7 kg 122.797 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management sys

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Included Products

BSAMNT-4

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-4



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

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



