

8-port multiband sector antenna, 4x 694-960 and 4x 1427-2690 MHz, 33° HPBW, 4x RET

- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction

General Specifications

Antenna Type Sector

Band Multiband

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

RF Connector Location Bottom

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

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 (2)

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 749 mm | 29.488 in

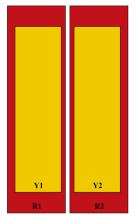
COMMSCOPE®

Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 67 kg | 147.71 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxR2
Y1	1427-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1427-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY2

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz 694-790 790-890 890-960 1427-1518 1695-1920 1920-2180 2300-2490 2490-2690

Gain, dBi 17.4 18.2 18.7 19.2 20.6 21.7 22.3 22

Beamwidth, Horizontal, degrees	36	32	30	36	29	26	24	21
Beamwidth, Vertical, degrees	8	7.2	6.6	7.1	5.9	5.3	4.7	4.4
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	17	17	19	18	20	21	19
Front-to-Back Ratio at 180°, dB	30	35	36	37	39	40	37	35
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
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	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1427-151	8 1695-192	0 1920-218	0 2300-249	0 2490-2690
Gain by all Beam Tilts, average, dBi	17	17.9	18.5	18.9	20.3	21.3	21.9	21.4
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.4	±0.4	±0.6	±0.6	±0.6	±0.5	±0.6
Beamwidth, Horizontal Tolerance, degrees	±3.4	±1.7	±1.6	±1.6	±2	±2.1	±0.9	±1.8
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.2	±0.3	±0.4	±0.3	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	14	15	16	16	18	20	20	18
Front-to-Back Total Power at 180° ± 30°, dB	22	27	27	31	34	32	32	30
CPR at Boresight, dB	21	21	24	18	20	19	18	18
CPR at 10 dB Horizontal Beamwidth, dB	8	13	10	8	12	10	11	8

Mechanical Specifications

Wind Loading @ Velocity, frontal	2,675.0 N @ 150 km/h (601.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	304.0 N @ 150 km/h (68.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	2,675.0 N @ 150 km/h (601.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	2,675.0 N @ 150 km/h (601.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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Packaging and Weights

 Width, packed
 910 mm | 35.827 in

 Depth, packed
 368 mm | 14.488 in

 Length, packed
 2921 mm | 115 in

 Weight, gross
 93.6 kg | 206.352 lb

 Weight, net
 67 kg | 147.71 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



Included Products

BSAMNT-4-F3 — Wide Profile Antenna Fixed Tilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round

members.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

