

12-port sector antenna, 4x 617-894 and 8x 1695-2690 MHz, 65° HPBW, 3x 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 | Wind loading figures are validated by wind tunnel

10 W

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Aluminum | Low loss circuit board **Radiator Material**

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band RF Connector Quantity, low band RF Connector Quantity, total 12

Remote Electrical Tilt (RET) Information

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 (2) | Low band (1)

1 W Power Consumption, idle state, maximum

Power Consumption, normal conditions, maximum

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 640 mm | 25.197 in

COMMSCOPE®

Depth

235 mm | 9.252 in

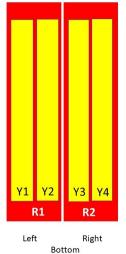
Length

1828 mm | 71.969 in

Net Weight, without mounting kit

49 kg | 108.026 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	617-894	1-2	1	AN
R2	617-894	3-4	1	ANxxxxxxxxxxxxxxxxxx1
Y1	1695-2690	5-6	_	AN
Y2	1695-2690	7-8	2	ANxxxxxxxxxxxxxxxxx2
Y3	1695-2690	9-10	3	AN
Y4	1695-2690	11-12		ANxxxxxxxxxxxx3

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain, dBi	14.4	14.7	17.6	18	18.4	18.4	19
Beamwidth, Horizontal, degrees	61	59	63	61	61	59	59
Beamwidth, Vertical, degrees	14.6	12.4	5.6	5.3	5.1	4.5	4.1
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	20	20	19	20	20	19
Front-to-Back Ratio at 180°, dB	29	33	35	33	30	31	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	28	28	28	28
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	14	14.3	17.2	17.6	17.9	18.1	18.4
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5	±0.5	±0.4	±0.6	±0.5	±0.5
Gain by Beam Tilt, average, dBi	2° 14.1 8° 14.0 14° 13.8	2° 14.5 8° 14.4 14° 14.0	2° 17.2 7° 17.3 12° 17.1	2° 17.5 7° 17.7 12° 17.5	2° 17.6 7° 18.0 12° 18.0	2° 17.9 7° 18.3 12° 17.8	2° 18.2 7° 18.7 12° 18.2
Beamwidth, Horizontal Tolerance, degrees	±4.2	±4.8	±3.6	±4.4	±5.5	±6.2	±8.3
Beamwidth, Vertical Tolerance, degrees	±1.2	±1.4	±0.3	±0.3	±0.4	±0.2	±0.2
USLS, beampeak to 20° above	21	19	14	15	17	16	15

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beampeak, dB							
Front-to-Back Total Power at 180° ± 30°, dB	21	22	27	27	24	25	25
CPR at Boresight, dB	16	16	19	21	19	17	21
CPR at Sector, dB	8	8	6	6	5	5	7

Mechanical Specifications

Effective Projective Area (EPA), frontal 0.72 m² | 7.75 ft²

Effective Projective Area (EPA), lateral 0.24 m² | 2.583 ft²

Mechanical Tilt Range 0°-15°

 Wind Loading @ Velocity, frontal
 765.0 N @ 150 km/h (172.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 251.0 N @ 150 km/h (56.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,041.0 N @ 150 km/h (234.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 387 mm | 15.236 in

 Length, packed
 1982 mm | 78.032 in

 Weight, gross
 67 kg | 147.71 lb

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/Exempted



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.

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* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance