

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 33° HPBW, 2x RETs and 2x SBTs

- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x Rx or 4x MIMO

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding Type RF connector body grounded to reflector and mounting bracket

Performance Note Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4 3-10 Female

RF Connector LocationBottom

RF Connector Quantity, high band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 6

Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 3

Internal RET High band (1) | Low band (1)

Power Consumption, idle state, maximum 1 W

COMMSCOPE®

Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 640 mm | 25.197 in

Depth 235 mm | 9.252 in

Length 1830 mm | 72.047 in

Net Weight, without mounting kit 43 kg | 94.799 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y1	1695-2360	3-4	2	
Y2	1695-2360	5-6	2	ANxxxxxxxxxxxxxxxx2

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

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

'						
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	17.6	18.3	19.6	20.2	20.8	21.6
Beamwidth, Horizontal, degrees	37	32	34	35	34	30
Beamwidth, Vertical, degrees	12.7	11.2	5.8	5.4	5.1	4.6
Beam Tilt, degrees	2-13	2-13	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	21	22	18	19	20	20
Front-to-Back Ratio at 180°, dB	34	39	36	39	39	35
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	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

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PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	300	300	250	250	250	200
maximum, watts						

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain by all Beam Tilts, average, dBi	17.2	18.1	19.2	19.9	20.4	21.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.2	±0.6	±0.5	±0.5	±0.3
Gain by Beam Tilt, average, dBi	2° 17.2 7° 17.3 13° 17.1	2° 18.1 7° 18.2 13° 18.0	2° 18.9 7° 19.3 12° 19.4	2° 19.6 7° 20.0 12° 20.0	2° 20.0 7° 20.5 12° 20.4	2° 21.0 7° 21.5 12° 21.2
Beamwidth, Horizontal Tolerance, degrees	±2.8	±1.1	±1.7	±1.3	±1.7	±1.3
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	21	20	16	17	18	18
Front-to-Back Total Power at 180° ± 30°, dB	29	28	29	31	31	29
CPR at Boresight, dB	18	18	18	21	19	18
CPR at Sector, dB	12	13	13	14	14	11

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.72 m ² 7.75 ft ²
Effective Projective Area (EPA), lateral	0.24 m ² 2.583 ft ²
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
 1379 mm | 54.291 in



Weight, gross 47.4 kg | 104.499 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



Included Products

BSAMNT-3 – 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.

BSAMNT-M – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

