

8-port sector antenna, 2x 698–798, 2x 824-894 and 4x 1695–2360 MHz, 45° HPBW, low bands each have a RET and the high bands share a RET. Two internal SBTs.

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One RET for 700MHz, one RET for 850MHz, and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO
- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- Separate RS-485 RET input/output for low and high band
- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF 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 Location Bottom

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

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 5

COMMSCOPE®

Internal RET High band (1) | Low band (2)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

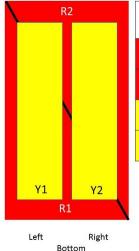
Width 457 mm | 17.992 in

Depth 178 mm | 7.008 in

Length 1829 mm | 72.008 in

Net Weight, without mounting kit 41.5 kg | 91.492 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-798	1-2	1	ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
R2	824-894	3-4	2	ANxxxxxxxxxxxxx2
Y1	1695-2360	5-6	3 ANxxxxxxxxxx	ANImanagamagamag2
Y2	1695-2360	7-8		AIVXXXXXXXXXXXXXXXX

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 798 MHz | 824 – 894 MHz

Polarization ±45°

Total Input Power, maximum 800 W @ 50 °C

Electrical Specifications

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Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	16.5	17.2	19.4	20.2	20.5	21.1
Beamwidth, Horizontal, degrees	48	43	44	43	41	38
Beamwidth, Vertical, degrees	12.6	11.2	5.8	5.4	5	4.5
Beam Tilt, degrees	2-14	2-14	0-8	0-8	0-8	0-8
USLS (First Lobe), dB	16	21	18	18	18	18
Front-to-Back Ratio at 180°, dB	32	36	37	37	38	41
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

Page 3 of 5



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

Electrical Specifications, BASTA

Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2200	2300-2360
Gain by all Beam Tilts, average, dBi	16.3	17	19.1	19.9	20.2	20.9
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.5	±0.4	±0.3	±0.4
Gain by Beam Tilt, average, dBi	2° 16.3 8° 16.3 14° 16.1	2 ° 17.1 8 ° 17.1 14 ° 16.7	0° 19.1 4° 19.2 8° 19.0	0° 19.8 4° 19.9 8° 19.8	0 ° 20.1 4 ° 20.2 8 ° 20.1	0° 20.7 4° 21.0 8° 20.7
Beamwidth, Horizontal Tolerance, degrees	±1.1	±2.4	±2	±2.7	±2.9	±1.5
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6	±0.3	±0.2	±0.3	±0.1
USLS, beampeak to 20° above beampeak, dB	16	21	17	17	17	17
Front-to-Back Total Power at 180° ± 30°, dB	23	24	29	31	33	34
CPR at Boresight, dB	25	26	20	21	20	20
CPR at Sector, dB	16	18	14	15	15	16

Mechanical Specifications

Effective Projective Area (EPA), frontal $1 \text{ m}^2 \mid 10.764 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.21 \text{ m}^2 \mid 2.26 \text{ ft}^2$

Mechanical Tilt Range 0°-15°

 Wind Loading @ Velocity, frontal
 1,065.0 N @ 150 km/h (239.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 220.0 N @ 150 km/h (49.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,065.0 N @ 150 km/h (239.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 935.0 N @ 150 km/h (210.2 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 608 mm | 23.937 in

 Depth, packed
 346 mm | 13.622 in

 Length, packed
 1970 mm | 77.559 in



Weight, gross 71.5 kg | 157.63 lb

Regulatory Compliance/Certifications

Agency Classification

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



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

