

12-port sector antenna, 4x 694–960 and 8x 1695–2690 MHz, 85° HPBW, 6x RETs

- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- All Internal RET actuators are connected in "Cascaded SRET" configuration

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

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 8

RF Connector Quantity, low band 4

RF Connector Quantity, total 12

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET High band (4) | Low band (2)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

COMMSCOPE®

Dimensions

Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 1828 mm | 71.969 in

Net Weight, without mounting kit 37.3 kg | 82.232 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxXR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxxxY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxxxxY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxxxXY3
Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxx4

Left Right Bottom

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

•								
Frequency Band, MHz	694-790	790-890	880-960	1695-188	0 1850-199	0 1920-218	0 2300–250	0 2500-2690
Gain, dBi	14.3	14.8	14.6	15.9	16.8	17.4	17.8	17.9
Beamwidth, Horizontal, degrees	84	75	80	84	82	78	73	73
Beamwidth, Vertical, degrees	12.6	11.4	10.4	5.5	5.2	5	4.6	4.3
Beam Tilt, degrees	2-14	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	19	17	15	18	18	18	16
Front-to-Back Ratio at 180°, dB	33	28	24	28	30	30	29	29
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

Page 3 of 7



PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	250	250	200	200	200	200	200	150
maximum, watts								

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	880-960	1695-188	0 1850-199	0 1920-218	0 2300-250	0 2500-2690
Gain by all Beam Tilts, average, dBi	13.9	14.5	14.2	15	16.1	16.7	17.4	17.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.7	±1.4	±0.8	±0.9	±0.7	±0.9
Gain by Beam Tilt, average, dBi	2° 13.8 8° 13.9 14° 13.8	2° 14.4 8° 14.5 14° 14.3	2° 14.3 8° 14.3 14° 13.9	2° 15.0 7° 15.2 12° 14.8	2° 16.0 7° 16.2 12° 15.9	2° 16.6 7° 16.8 12° 16.5	2° 17.5 7° 17.6 12° 16.7	2° 17.2 7° 17.4 12° 16.8
Beamwidth, Horizontal Tolerance, degrees	±8.2	±5.7	±7.2	±8.9	±10.7	±10.2	±11	±5.9
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.9	±0.2	±0.3	±0.3	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	20	19	18	13	15	15	15	14
Front-to-Back Total Power at 180° ± 30°, dB	20	20	19	22	25	24	24	23
CPR at Boresight, dB	20	21	17	15	16	15	17	19
CPR at Sector, dB	11	8	11	10	11	11	8	6

Mechanical Specifications

Mechanical Tilt Range 0°-17°

 Wind Loading @ Velocity, frontal
 685.0 N @ 150 km/h (154.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 232.0 N @ 150 km/h (52.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 889.0 N @ 150 km/h (199.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 564.0 N @ 150 km/h (126.8 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 368 mm | 14.488 in

 Length, packed
 2014 mm | 79.291 in

 Weight, gross
 51.4 kg | 113.317 lb

Regulatory Compliance/Certifications



Agency Classification

CHINA-ROHS Above maximum concentration value

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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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





