

16-port sector antenna, 4x 694–960, 4x 1427-2690 MHz 65° HPBW and 8x 2300–2690 MHz, 90° HPBW, 5x RET

- Includes 2x Single Column X-Pol Arrays for 694-960MHz and 2x Single Column X-Pol Arrays for 1427-2690MHz, suitable for 4x MIMO applications
- Also includes 1x 4-Column Array for 2300-2690 MHz with calibration port. Column spacing optimized to support Soft Split Beamforming
- A calibration port is provided for the 4-Column Array
- 5 Internal RET's provide independent electrical tilt control for each array
- Supports re-configurable antenna sharing capability. Factory setting puts 2.6 GHz RET control (Y3) on AISG2, all other arrays have RET control on AISG1

OBSOLETE

This product was discontinued on: November 30, 2023

Replaced By:

RRZZT4-65A-R5 16-port sector antenna, 4x 694-960, 4x 1427-2690 MHz 65° HPBW and 8x 2300-2690 MHz, 90°

HPBW. 5x RET

General Specifications

Antenna Type Sector

Band Multiband

Calibration Connector Interface 4.3-10 Female

Calibration Connector Quantity

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and 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 Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, high band 12

RF Connector Quantity, low band 4

COMMSCOPE®

RF Connector Quantity, total

16

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 (3) | 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
 498 mm | 19.606 in

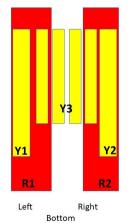
 Depth
 197 mm | 7.756 in

 Length
 1499 mm | 59.016 in

 Net Weight, without mounting kit
 36.5 kg | 80.469 lb

 TDD Column Spacing
 58 mm | 2.283 in

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxXR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxR2
Y1	1427-2690	5-6	3	CPxxxxxxxxxxxxxXY1
Y2	1427-2690	7-8	4	CPxxxxxxxxxxxxxY2
Y3	2300-2690	9-16	5	CPxxxxxxxxxxxxxXY3

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 2300 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1-R2	R1-R2	R1-R2	Y1-Y2	Y1-Y2	Y1-Y2	Y3	Y3
Frequency Band, MHz	694-790	790-890	890-960	1427-151	8 1695-218	0 2300-269	0 2300-250	0 2490-2690
Gain, dBi	13.2	13.4	13.5	15.4	17.1	18.3	16.5	16.5
Beamwidth, Horizontal, degrees	70	66	63	68	73	55	95	94
Beamwidth, Vertical, degrees	17	15.3	13.9	8.9	6.9	5.2	5.3	5
Beam Tilt, degrees	2-16	2-16	2-16	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	22	16	21	17	19	17	19
Front-to-Back Ratio at 180°, dB	31	29	26	33	30	31	34	31
Coupling level, Amp, Antenna port to Cal port, dB							26	26
Coupling level, max Amp Δ ,							±2	±2

Page 3 of 8



Antenna port to Cal port, dB								
Coupler, max Amp Δ , Antenna port to Cal port, dB							0.9	0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees							7	7
Isolation, Cross Polarization, dB	27	27	27	25	25	25	25	25
Isolation, Inter-band, dB	27	27	27	25	25	25	20	20
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	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	200	200
Electrical Specificati	ons, BA	STA						
Frequency Band, MHz	694-790	790-890	890-960	1427-151	8 1695–218	80 2300-269	90 2300-250	00 2490-2690
Gain by all Beam Tilts, average, dBi	12.9	13.1	13.2	15	16.3	18	16	15.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5	±0.4	±0.5	±0.8	±0.5	±0.6	±0.9
Gain by Beam Tilt, average, dBi	2° 13.0 9° 12.9 16° 12.7	2° 13.3 9° 13.2 16° 12.7	2° 13.4 9° 13.3 16° 13.1	2° 15.0 7° 15.1 12° 15.0	2° 16.0 7° 16.4 12° 16.2	2° 17.5 7° 18.1 12° 17.8	2° 16.0 7° 16.1 12° 15.9	2° 15.8 7° 16.1 12° 15.8
Beamwidth, Horizontal Tolerance, degrees	±8.9	±5.7	±5.5	±5.7	±9.3	±4.8	±13.1	±10.9
Beamwidth, Vertical Tolerance, degrees	±1.1	±1.2	±1.2	±0.4	±0.9	±0.5	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB				16	16	16	17	17
Front-to-Back Total Power at 180° ± 30°, dB	20	21	21	25	25	26	25	24
CPR at Boresight, dB	20	19	19	20	18	17	15	14
CPR at Sector, dB	12	8	11	4	4	2	11	9
Electrical Specificati	ons, Bro	padcast	65°					
Frequency Band, MHz							2300-250	00 2490-2690
Gain, dBi							18.3	18.2
Beamwidth, Horizontal, degrees							60	60
Beamwidth, Horizontal Tolerance, degrees							±3.2	±5.2

Page 4 of 8

Beamwidth, Vertical, degrees	5.2	5
Beamwidth, Vertical Tolerance, degrees	±0.2	±0.2
USLS (First Lobe), dB	18	19

Electrical Specifications, Service Beam

Frequency Band, MHz	2300-25	500 2490 – 2690
Steered 0° Gain, dBi	21.4	21.4
Steered 0° Beamwidth, Horizontal, degrees	26	25
Steered 0° CPR over 10 dB Beamwidth, dB		25
Steered 0° Horizontal Sidelobe, dB	12	10
Steered 13° Gain, dBi		30
Steered 13° CPR over 10 dB Beamwidth, dB		10
Steered 30° Gain, dBi	21.3	20.9
Steered 30° Beamwidth, Horizontal, degrees	28	30

Electrical Specifications, Soft Split

Frequency Band, MHz	2300-2500	2490-2690
Gain, dBi	20.9	20.8
Beamwidth, Horizontal, degrees	32	33
Horizontal Sidelobe, dB	21	17

Mechanical Specifications

Mechanical Fift Range	0°-15°
Wind Loading @ Velocity, frontal	549.0 N @ 150 km/h (123.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	183.0 N @ 150 km/h (41.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	712.0 N @ 150 km/h (160.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	452.0 N @ 150 km/h (101.6 lbf @ 150 km/h)

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

Packaging and Weights

Width, packed 565 mm | 22.244 in

Page 5 of 8

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 1686 mm | 66.378 in

 Weight, gross
 49.2 kg | 108.467 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.

* 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









