

16-port sector antenna, 4x 698–896, 8x 1695–2360 and 4x 3550- 3700 MHz, 45° HPBW, 3x RETs and 3x SBTs.

- Features broadband Low Band (698-896 MHz), Mid Band (1695-2360 MHz) and High Band (3550-3700 MHz) arrays for 4T4R (4X MIMO) capability for bands 5, 13, 25, 66 and 48. Also covers bands 12, 14, 29, and 30
- Perfect antenna to add 3.5GHz CBRS to macro sites
- Array configuration provides capability for 4T4R (4X MIMO) on Low Band, dual 4T4R (4X MIMO) on Mid Band and 4T4R (4X MIMO) on High Band
- Excellent wind loading characteristics
- Non-stacked mid band array design provides higher gain and narrower vertical beamwidth than traditional antenna designs

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow 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, mid band 8
RF Connector Quantity, low band 4
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 3 female | 3 male

Input Voltage 10-30 Vdc

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Internal Bias Tee Port 1 | Port 5 | Port 7

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

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0

Dimensions

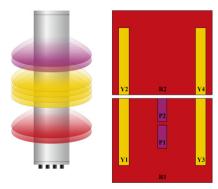
 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 1399 mm | 55.079 in

 Net Weight, antenna only
 29.5 kg | 65.036 lb

Array Layout



Array ID Frequency (M		RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	698-896	1 - 2	1	AISG1	60		
R2	698-896	3 - 4	'		CPxxxxxxxxxxxxxxR1		
Y1	1695-2360	5 - 6	2	AISG2	CD		
Y3	1695-2360	9 - 10			CPxxxxxxxxxxxxxxY1		
Y2	1695-2360	7 - 8	3	AISG3	60		
Y4	1695-2360	11 - 12	3		CPxxxxxxxxxxxxxxY2		
P1	3550-3700	13 - 14	NI/A		N/A		
P2	3550-3700	15 - 16	N/A	NA			

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 3550 – 3700 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 1,600 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360	3550-3700
Gain, dBi	12.7	13.3	15.3	15.7	16.3	16.5	15
Beamwidth, Horizontal, degrees	48	44	44	41	39	37	45
Beamwidth, Vertical, degrees	36	30.4	14.5	13.6	12.8	11.1	15.6
Beam Tilt, degrees	2-18	2-18	0-10	0-10	0-10	0-10	8
USLS (First Lobe), dB	19	17	16	17	16	15	16
Front-to-Back Ratio at 180°, dB	33	30	31	32	31	30	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200	100

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360	3550-3700
Gain by all Beam Tilts, average, dBi	12.1	13	14.7	15.3	15.8	16	14.5
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.5	±0.8	±0.6	±0.7	±0.6	±1.6
Beamwidth, Horizontal Tolerance, degrees	±3	±2.8	±3.7	±2.5	±3.1	±3	±4.3
Beamwidth, Vertical Tolerance, degrees	±3.5	±2.6	±1.1	±0.8	±1	±0.7	±1.2
Front-to-Back Total Power at 180° ± 30°, dB	25	23	23	25	25	25	32
CPR at Boresight, dB	20	20	17	18	18	20	14

Page 3 of 4



CPR at 10 dB Horizontal 14 12 7 9 10 11 10

Beamwidth, dB

Mechanical Specifications

Effective Projective Area (EPA), frontal 0.74 m² | 7.965 ft² Effective Projective Area (EPA), lateral 0.15 m² | 1.615 ft²

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

 Wind Loading @ Velocity, lateral
 159.0 N @ 150 km/h (35.7 lbf @ 150 km/h)

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

 Wind Loading @ Velocity, rear
 692.0 N @ 150 km/h (155.6 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 563 mm | 22.165 in

 Depth, packed
 355 mm | 13.976 in

 Length, packed
 1572 mm | 61.89 in

 Weight, gross
 42 kg | 92.594 lb

Regulatory Compliance/Certifications

Agency Classification

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

Below maximum concentration value

ROHS Compliant UK-ROHS Compliant



CHINA-ROHS

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

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