

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 85° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- 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 RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

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 7-16 DIN Female

RF Connector Location Bottom

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 2 W
Power Consumption, normal conditions, maximum 13 W

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Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 301 mm | 11.85 in

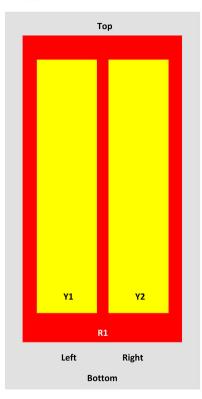
Depth 180 mm | 7.087 in

Length 2438 mm | 95.984 in

Net Weight, without mounting kit 23.1 kg | 50.927 lb

Array Layout

<u>NHH</u>



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y1	1695-2360	3-4	2	ANxxxxxxxxxxxxxxxxx2
V2	1695-2360	5-6	1	400000000000000000000000000000000000000

View from the front of the antenna (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 – 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	15.5	15.6	17.1	17.5	17.9	17.9
Beamwidth, Horizontal, degrees	81.5	83	81.5	78	78	79.7
Beamwidth, Vertical, degrees	8.9	8.1	5.6	5.3	5	4.7
Beam Tilt, degrees	0-10	0-10	0-8	0-8	0-8	0-8
USLS (First Lobe), dB	17	17	15	18	19	18
Front-to-Back Ratio at 180°, dB	30	30	34	30	30	28
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	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

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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	15.4	15.4	16.6	17.3	17.6	17.7
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.3	±0.6	±0.3	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0° 15.2 5° 15.4 10° 15.4	0° 15.1 5° 15.5 10° 15.6	0 ° 16.6 4 ° 16.6 8 ° 16.4	0° 17.3 4° 17.3 8° 17.2	0° 17.6 4° 17.7 8° 17.5	0° 17.6 4° 17.8 8° 17.4
Beamwidth, Horizontal Tolerance, degrees	±1.7	±1.5	±4.5	±2.4	±3.2	±2
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.2	±0.2	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	16	15	14	15	16	17
Front-to-Back Total Power at 180° ± 30°, dB	24	24	26	25.6	26	25
CPR at Boresight, dB	19	20	19	19	19	21
CPR at Sector, dB	13	15	12	12	11	7

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.37 m ² 3.983 ft ²
Effective Projective Area (EPA), lateral	0.31 m ² 3.337 ft ²

 Mechanical Tilt Range
 0°-11°

 Wind Loading @ Velocity, frontal
 393.0 N @ 150 km/h (88.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 330.0 N @ 150 km/h (74.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 757.0 N @ 150 km/h (170.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 398.0 N @ 150 km/h (89.5 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 380 mm | 14.961 in

 Depth, packed
 295 mm | 11.614 in

 Length, packed
 2571 mm | 101.221 in

COMMSCOPE®

Weight, gross 30.4 kg | 67.02 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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

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

