

6-port sector antenna, 2x 698-894 and 4x 1695–2360 MHz, 65° HPBW, 3x RETs and 2x SBTs.

- Internal SBT on low and mid band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and mid band
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Two LB RET and one MB RET. Both mid bands are controlled by one RET to ensure same tilt level for 4x MIMO
- The low band array is internally diplexed for an independent tilt at 700 MHz and 850 MHz

General Specifications

Antenna Type Sector with internal RET and bias tee

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, mid band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 6

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 Bias Tee Port 1 | Port 3

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

COMMSC PE°

Power Consumption, active state, maximum 10 W

Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0

Dimensions

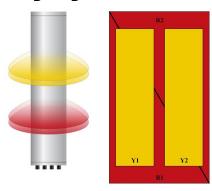
 Width
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

Length 2438 mm | 95.984 in

Net Weight, antenna only 35.6 kg | 78.484 lb

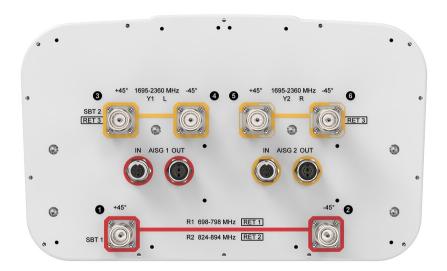
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID	
R1	698-798	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxR1	
	824-894	1 - 2	2	AISG1	1	1	CPxxxxxxxxxxxxxxR2	
Y1	1695-2360	3 - 4				_	60	
Y2	1695-2360	5 - 6	3	AISG2	3	2	CPxxxxxxxxxxxxxxY1	

(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

	R1	R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2200	2200-2360
RF Port	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6
Gain, dBi	15.5	15.7	18.1	18.6	18.6	18.7
Beamwidth, Horizontal, degrees	64	61	62	58	61	69
Beamwidth, Vertical, degrees	9.1	7.8	5.5	5.1	4.8	4.5
Beam Tilt, degrees	0-11	0-11	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	20	15	17	19	20	20
Front-to-Back Ratio at 180°, dB	34	37	32	36	36	35
Isolation, Cross Polarization,	25	25	25	25	25	25

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dB						
Isolation, Inter-band, dB	28	28	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	150	150	250	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2200	2200-2360
Gain by all Beam Tilts, average, dBi	15.2	15.4	17.6	18.4	18.4	18.4
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.7	±0.3	±0.4	±0.5
Beamwidth, Horizontal Tolerance, degrees	±3	±2	±5	±2	±8	±5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	17	15	16	18	18	16
Front-to-Back Total Power at 180° ± 30°, dB	29	29	25	26	26	29
CPR at Boresight, dB	22	22	15	22	23	21
CPR at Sector, dB	15	9	7	5	6	8

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 425.0 N @ 150 km/h (95.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 361.0 N @ 150 km/h (81.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 451.0 N @ 150 km/h (101.4 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 456 mm | 17.953 in

 Depth, packed
 357 mm | 14.055 in

 Length, packed
 2585 mm | 101.772 in

 Weight, gross
 49.8 kg | 109.79 lb

Regulatory Compliance/Certifications

COMMSCOPE®

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