

8-port sector antenna, 4x 694–896 and 4x 1695–2360 MHz, 65° HPBW, 4x RETs

- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

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

RF Connector Quantity, high band

RF Connector Quantity, low band

4

RF Connector Quantity, total

8

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

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

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

Protocol 3GPP/AISG 2.0 (Multi-RET)



Dimensions

Width 430 mm | 16.929 in

Depth 197 mm | 7.756 in

Length 1848 mm | 72.756 in

Net Weight, without mounting kit 28.4 kg | 62.611 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG RET UID
R1	694-896	1 - 2	1	CPxxxxxxxxxxxMM.1
R2	694-896	3 - 4	2	CPxxxxxxxxxxxMM.2
Y1	1695-2360	5 - 6	3	CPxxxxxxxxxxxMM.3
Y2	1695-2360	7 - 8	4	CPxxxxxxxxxxxMM.4

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 694 – 896 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	13.9	14.6	16.6	17.2	17.6	18.2
Beamwidth, Horizontal, degrees	61	57	65	65	63	59
Beamwidth, Vertical, degrees	12.5	10.9	7	6.6	6.2	5.6
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	21	18	15	14	14	14
Front-to-Back Ratio at 180°, dB	30	31	32	35	33	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	13.4	14.3	16	16.7	17	17.7
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.5	±0.8	±0.7	±0.8	±0.6
Beamwidth, Horizontal Tolerance, degrees	±10.7	±6.5	±6.7	±5.6	±6.9	±7.5
Beamwidth, Vertical Tolerance, degrees	±1.1	±0.9	±0.5	±0.3	±0.5	±0.2
USLS, beampeak to 20° above beampeak, dB	21	17	11	13	13	13
Front-to-Back Total Power at 180° ± 30°. dB	23	23	25	28	26	25

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CPR at Boresight, dB	24	24	17	21	21	20
CPR at Sector, dB	9	9	8	9	8	6

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 471.0 N @ 150 km/h (105.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 241.0 N @ 150 km/h (54.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 762.0 N @ 150 km/h (171.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 444.0 N @ 150 km/h (99.8 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 530 mm | 20.866 in

 Depth, packed
 349 mm | 13.74 in

 Length, packed
 2020 mm | 79.528 in

 Weight, gross
 41.1 kg | 90.61 lb

Regulatory Compliance/Certifications

Agency Classification

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/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

