

8-port sector antenna, 4x 698–896 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
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

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 | 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 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 4
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, idle state, maximum 1 W
Power Consumption, normal conditions, maximum 8 W

COMMSCOPE®

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2438 mm | 95.984 in

Net Weight, without mounting kit 39.3 kg | 86.642 lb

Array Layout



Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	698-896	1-2	1	CPxxxxxxxxxxxxxxxxmm.1
R2	698-896	3-4	2	CPxxxxxxxxxxxxxxxxmm.2
Y1	1695-2360	5-6	3	CPxxxxxxxxxxxxxxxmm.3
Y2	1695-2360	7-8	4	CPxxxxxxxxxxxxxxxmm.4

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

Port Configuration

Bottom



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

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Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	15.6	16.1	18.3	19	19.2	19.1
Beamwidth, Horizontal, degrees	75	69	63	56	58	62
Beamwidth, Vertical, degrees	9.9	8.7	5.4	5	4.8	4.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	21	18	17	18	20	20
Front-to-Back Ratio at 180°, dB	29	28	36	40	38	35
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

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PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
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	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	15.3	15.8	17.8	18.7	18.9	18.9
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.5	±0.4	±0.3	±0.3
Gain by Beam Tilt, average, dBi	2° 15.2 7° 15.4 12° 15.2	2° 15.9 7° 15.9 12° 15.6	2° 17.8 7° 18.0 12° 17.7	2° 18.6 7° 18.9 12° 18.6	2° 18.8 7° 19.1 12° 18.7	2° 18.7 7° 19.0 12° 18.8
Beamwidth, Horizontal Tolerance, degrees	±3	±2.8	±4.6	±4.1	±6.3	±2.3
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.6	±0.3	±0.2	±0.3	±0.1
USLS, beampeak to 20° above beampeak, dB	18	14	16	17	18	17
Front-to-Back Total Power at 180° ± 30°, dB	20	21	29	32	31	28
CPR at Boresight, dB	21	21	19	23	23	22
CPR at Sector, dB	10	6	6	8	7	8

Mechanical Specifications

Effective Projective Area (EPA), frontal0.9 m² | 9.688 ft²Effective Projective Area (EPA), lateral0.31 m² | 3.337 ft²

Mechanical Tilt Range 0°-10°

 Wind Loading @ Velocity, frontal
 954.0 N @ 150 km/h (214.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 331.0 N @ 150 km/h (74.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,235.0 N @ 150 km/h (277.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 785.0 N @ 150 km/h (176.5 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2625 mm | 103.347 in



Weight, gross 53.8 kg | 118.609 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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



Included Products

BSAMNT-3F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

