

8-port sector antenna, 4x 698-896 and 4x 1695-2360 MHz, 45° HPBW, 4x RET

Interleaved dipole technology providing for attractive, low wind load mechanical package

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, 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

Dimensions

Width 457 mm | 17.992 in

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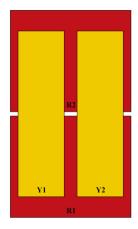
Depth 178 mm | 7.008 in

Length 1399 mm | 55.079 in

Net Weight, antenna only 26 kg | 57.32 lb

TDD Column Spacing 210 mm | 8.268 in

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG RET UID	
R1	698-896	1 - 2	1	CPxxxxxxxxxxxxMM.1	
R2	698-896	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)

Electrical Specifications

Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 1,000 W

Electrical Specifications

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1-4	1-4	5-8	5-8	5-8	5-8
Gain, dBi	12.7	13.4	17.4	18	18.6	19
Gain at Mid Tilt, dBi	12.2	13.2	17	17.8	18.4	18.9
Beamwidth, Horizontal, degrees	48	43	45	43	41	38
Beamwidth, Vertical, degrees	35.6	30.5	8.3	7.7	7.3	6.5
Beam Tilt, degrees	2-18	2-18	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	19	20	21	21	21
Front-to-Back Ratio at 180°,	29	32	36	36	38	37

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dB						
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	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	12.2	13.2	16.9	17.7	18.2	18.7
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.8	±0.5	±0.6	±0.5
Gain by Beam Tilt, average, dBi	2° 12.3 10° 12.2 18° 12.1	2° 13.3 10° 13.2 18° 13.0	2° 17.1 7° 17.0 12° 16.5	2° 17.8 7° 17.8 12° 17.4	2° 18.3 7° 18.4 12° 17.9	2° 18.9 7° 18.9 12° 18.2
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±5	±3	±2	±2
Beamwidth, Vertical Tolerance, degrees	±2.2	±2.4	±0.5	±0.3	±0.4	±0.2
USLS, beampeak to 20° above beampeak, dB			14	16	17	15
Front-to-Back Total Power at 180° ± 30°, dB	22	24	28	30	30	30

Mechanical Specifications

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) 692.0 N @ 150 km/h (155.6 lbf @ 150 km/h) Wind Loading @ Velocity, rear 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 35.2 kg | 77.603 lb

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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-2F – 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

