

10-port sector antenna, 2x 617-960, 4x 1695-2690 and 4x 3100-4200 MHz, 65° HPBW, 3x RETs. Both high bands share the same electrical tilt.

• Small size ideal for deploying low band, mid band and 3.5 GHz in concealments and flagpoles

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 Material Fiberglass, UV resistant

Reflector Material Aluminum

RE Connector Interface 4 3-10 Female

RF Connector LocationBottom

RF Connector Quantity, high band 4
RF Connector Quantity, mid band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 10

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 (1) | Low band (1) | Mid band (1)

Power Consumption, active state, maximum 8 W Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

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Dimensions

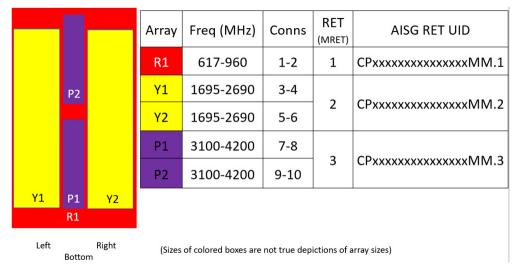
 Width
 301 mm | 11.85 in

 Depth
 181 mm | 7.126 in

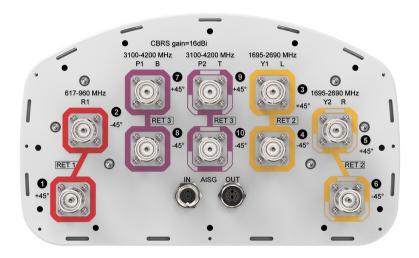
 Length
 1219 mm | 47.992 in

 Net Weight, antenna only
 16.1 kg | 35.494 lb

Array Layout



Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 3100 – 4200 MHz | 617 – 960 MHz

Polarization ±45°

Total Input Power, maximum 1,000 W @ 50 °C

Electrical Specifications

	R1	R1	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	617-698	698-806	806-894	894-960	1695-188	01850-199	01920-220	02300-250	02500-2690
RF Port	1,2	1,2	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6
Gain, dBi	12.9	13	13.2	13	16.4	16.9	17.1	16.5	17.3
Beamwidth, Horizontal, degrees	75	75	72	72	66	60	61	72	61
Beamwidth, Vertical, degrees	21.2	18.4	16.3	15.1	7.5	7	6.6	6	5.7
Beam Tilt, degrees	4-18	4-18	4-18	4-18	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	19	17	16	15	16	17	17	17
Front-to-Back Ratio at	27	34	32	31	33	35	32	33	33

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180°, dB									
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	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	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	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	250	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-806	806-894	894-960	1695-188	301850-199	01920-220	002300-250	002500-2690
Gain by all Beam Tilts, average, dBi	12.7	12.7	12.9	12.7	15.8	16.5	16.7	16.1	16.8
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4	±0.6	±0.8	±0.5	±0.5	±0.6	±0.7
Beamwidth, Horizontal Tolerance, degrees	±2	±4	±3	±4	±6	±4	±7	±6	±11
Beamwidth, Vertical Tolerance, degrees	±1.4	±1.5	±1.2	±0.9	±0.6	±0.4	±0.5	±0.5	±0.6
USLS, beampeak to 20° above beampeak, dB				19	13	14	14	14	14
Front-to-Back Total Power at 180° ± 30°, dB	18	22	22	21	24	26	26	24	26
CPR at Boresight, dB	18	20	24	25	19	22	23	22	24
CPR at Sector, dB	8	13	10	7	4	4	4	6	7

Electrical Specifications

	P1,P2	P1,P2	P1,P2			
Frequency Band, MHz	3100-34003400-38003700-4200					
RF Port	7,8,9,10	7,8,9,10	7,8,9,10			
Gain, dBi	16	15.5	15.6			
Beamwidth, Horizontal, degrees	49	60	59			
Beamwidth, Vertical, degrees	8.6	7.8	7.1			
Beam Tilt, degrees	2-12	2-12	2-12			
USLS (First Lobe), dB	18	16	15			
Front-to-Back Ratio at 180°, dB	31	30	29			

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Isolation, Cross Polarization, dB	25	25	25
Isolation, Inter-band, dB	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	100	100	100

Electrical Specifications, BASTA

Frequency Band, MHz	3100-340	03400-380	03700-4200
Gain by all Beam Tilts, average, dBi	15.4	15	15.1
Gain by all Beam Tilts Tolerance, dB	±0.9	±0.7	±0.8
Beamwidth, Horizontal Tolerance, degrees	±11	±10	±10
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.9	±0.8
USLS, beampeak to 20° above beampeak, dB	12	13	12
Front-to-Back Total Power at 180° ± 30°, dB	25	24	24
CPR at Boresight, dB	17	14	15
CPR at Sector, dB	7	4	4

Mechanical Specifications

Wind Loading @ Velocity, frontal 173.0 N @ 150 km/h (38.9 lbf @ 150 km/h) 142.0 N @ 150 km/h (31.9 lbf @ 150 km/h) Wind Loading @ Velocity, lateral Wind Loading @ Velocity, maximum 334.0 N @ 150 km/h (75.1 lbf @ 150 km/h) Wind Loading @ Velocity, rear 176.0 N @ 150 km/h (39.6 lbf @ 150 km/h) 241.4 km/h (150 mph) Wind Speed, maximum

Packaging and Weights

Width, packed 380 mm | 14.961 in Depth, packed 295 mm | 11.614 in Length, packed 1344 mm | 52.913 in Weight, gross 26.4 kg | 58.202 lb

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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-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

