

24-port sector antenna, 4x 694-960, 4x 1427-2690, 4x 1695-2180, 4x 2490-2690 and 8x 3300-3800 MHz, 65° HPBW, 8x RET

- Antenna includes 2x Single Column X-Pol Arrays for 694-960MHz and 2x Single Column X-Pol Arrays for 1427-2690MHz, suitable for 4x MIMO applications
- Includes 2x Single Column X-Pol Diplexed Arrays providing 4-Ports x 1695-2180MHz and 4 Ports x 2490-2690MHz, suitable for 4x MIMO applications
- Retractable tilt indicator rods
- Excellent wind loading characteristics
- MQ4/MQ5 cluster connector for 3.3-3.8GHz, equipped with calibration port
- Includes eight Internal RET's. All 2490-2690MHz (Y1&Y4) ports share common RET

This product will be discontinued on: December 31, 2025

General Specifications

Antenna Type Sector and beamforming

Band Multiband

Calibration Connector Interface MQ5
Calibration Connector Quantity 1

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 | MQ4 | MQ5

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 12

RF Connector Quantity, low band

RF Connector Quantity, total 24

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 Voltage10-30 VdcInternal Bias TeeCal Port

Internal RET High band (1) | Low band (2) | Mid band (5)

Power Consumption, active state, maximum $8~\mathrm{W}$ Power Consumption, idle state, maximum $1~\mathrm{W}$

Protocol 3GPP/AISG 2.0

Dimensions

 Width
 430 mm | 16.929 in

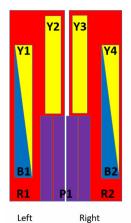
 Depth
 197 mm | 7.756 in

 Length
 2100 mm | 82.677 in

 Net Weight, antenna only
 41.2 kg | 90.83 lb

 TDD Column Spacing
 42 mm | 1.654 in

Array Layout



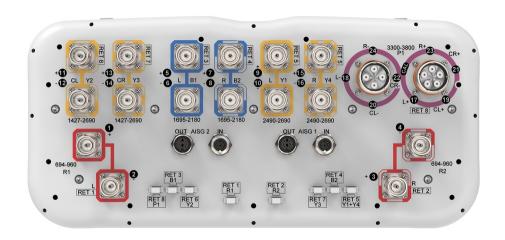
Bottom

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID		
R1	694-960	960 1-2		CPxxxxxxxxxxxxxxXR1		
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxR2		
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxB1		
B2	1695-2180	7-8	4	CPxxxxxxxxxxxxxxB2		
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxY1		
Y4	2490-2690	15-16	Э	CPXXXXXXXXXXXXXX		
Y2	1427-2690	11-12	6	CPxxxxxxxxxxxxxxY2		
Y3	1427-2690	13-14	7	CPxxxxxxxxxxxxxXY3		
P1	3300-3800	17-24	8	CPxxxxxxxxxxxxxxXP1		

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 3300 – 3800

MHz | 694 - 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y2,Y3	Y2,Y3	Y2,Y3	B1,B2	Y1,Y4	P1
Frequency Band, MHz	694-790	790-890	890-960	1427-1518	31695-2200	2300-2690	01695-218	02490-269	03300-3800
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	11,12,13,14	11,12,13,14	11,12,13,14	1 5,6,7,8	9,10,15,16	17,18,19,20,21,22,23,24
Gain, dBi	14.1	15	15	14.1	15.9	16.6	17.1	17.7	15.8
Beamwidth, Horizontal, degrees	70	60	59	69	63	61	69	64	82
Beamwidth, Vertical, degrees	10.6	9.5	8.7	9.9	7.6	6.2	5.2	4.2	6.2
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	19	18	13	18	20	19	21	16
Front-to-Back	31	31	30	34	34	31	32	32	28

Page 3 of 6



Ratio at 180°, dB									
Coupling level, Amp, Antenna port to Cal port, dB									26
Coupling level, max Amp Δ, Antenna port to Cal port, dB									±2
Coupler, max Amp Δ, Antenna port to Cal port, dB									0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees									7
Isolation, Cross Polarization, dB	27	27	27	26	26	26	27	27	25
Isolation, Inter- band, dB	27	27	27	26	26	26	26	27	19
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	-153	-153	-153	-153	-153	-153	-153	-153	-130
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	250	200	75
Electrical Spe	cificat	ions, E	3roadc	ast 65°					
Frequency Band, MHz									3300-3800
Gain, dBi									16.5
Beamwidth, Horizontal, degrees									59
Beamwidth, Vertical, degrees									6.1
Front-to-Back Total Power at 180° ± 30°, dB									23
USLS (First Lobe), dB									17
Electrical Spe	cificat	ions, S	Service	Beam					
Frequency Band,									3300-3800

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MHz

Steered 0° Gain, dBi	20.7
Steered 0° Beamwidth, Horizontal, degrees	24
Steered 0° Front-to- Back Total Power at 180° ± 30°, dB	29
Steered 0° Horizontal Sidelobe, dB	15
Steered 30° Gain, dBi	19.6
Steered 30° Beamwidth, Horizontal, degrees	28
Steered 30° Front- to-Back Total Power at 180° ± 30°, dB	26

Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3800
Gain, dBi	19.6
Beamwidth, Horizontal, degrees	31
Horizontal Sidelobe, dB	16

Mechanical Specifications

Wind Loading @ Velocity, frontal	494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	780.0 N @ 150 km/h (175.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	319.0 N @ 150 km/h (71.7 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

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 Length, packed
 2272 mm | 89.449 in

 Weight, gross
 53.5 kg | 117.947 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-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

