

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

General Specifications

Antenna Type	Sector and beamforming
Band	Multiband
Calibration Connector Interface	MQ5
Calibration Connector Quantity	1
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low 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	4
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 Voltage	10-30 Vdc
Internal Bias Tee	Cal Port
Internal RET	High band (1) Low band (2) Mid band (5)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 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

	Y2	Y3		Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
Y1			Y4	R1	694-960	1-2	1	CPxxxxxxxxxxxxR1
				R2	694-960	3-4	2	CPxxxxxxxxxxxxR2
				B1	1695-2180	5-6	3	CPxxxxxxxxxxxxB1
				B2	1695-2180	7-8	4	CPxxxxxxxxxxxxB2
				Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX
				¥4	2490-2690	15-16	5	CPXXXXXXXXXXXXXXXXXXX11
				Y2	1427-2690	11-12	6	CPxxxxxxxxxxxxXXXXXY2
B1			B2	Y3	1427-2690	13-14	7	CPxxxxxxxxxxxxXXXXXXXXXY3
R1	P	1	R2	P1	3300-3800	17-24	8	CPxxxxxxxxxxxxxP1

Left Right Bottom

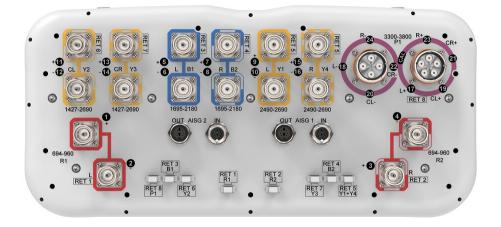
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration

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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)2300-269(01695-218	02490-2690	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	4 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

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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 Ioss, 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	cificati	ons, B	lroadca	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),									17

dB

Electrical Specifications, Service Beam

Frequency Band, MHz

3300-3800

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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° ±	26

Electrical Specifications, Soft Split

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

Mechanical Specifications

30°, dB

494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)
266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)
780.0 N @ 150 km/h (175.4 lbf @ 150 km/h)
319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
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

