

24-port sector antenna, 4x 694–960, 4x 1427–1518, 4x 1695-2180, 4x 2490-2690 65° HPBW and 8x 3300-3800 MHz, 7x RET

- Integrated with a calibration board
- Optimized for Software Defined Split 6 Sector applications
- 2 columns for 694-960 MHz and 2 columns for 1427-1518 / 1695-2180 / 2490-2690 MHz and 4 columns for 3300-3800 MHz
- Seven internal RETs control the antenna arrays
- MQ4/MQ5 cluster connector for 3.3-3.8GHz, equipped with calibration port

This product will be discontinued on: December 31, 2025

General Specifications

Antenna Type Sector and beamforming

BandMultibandCalibration Connector InterfaceMQ5

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

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female | MQ4 | MQ5

RF Connector LocationBottom

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 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (1) | Low band (2) | Mid band (4)

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

Protocol 3GPP/AISG 2.0

Dimensions

 Width
 498 mm | 19.606 in

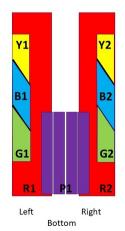
 Depth
 197 mm | 7.756 in

 Length
 1499 mm | 59.016 in

 Net Weight, antenna only
 37.8 kg | 83.335 lb

 TDD Column Spacing
 42 mm | 1.654 in

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
G1	1427-1518	5-6	3	CPxxxxxxxxxxxxxxXG1
G2	1427-1518	7-8	3	CPXXXXXXXXXXXXXXXI
B1	1695-2180	9-10	4	CPxxxxxxxxxxxxxxB1
B2	1695-2180	11-12	5	CPxxxxxxxxxxxxxxB2
Y1	2490-2690	13-14	6	CPxxxxxxxxxxxxxxY1
Y2	2490-2690	15-16	ь	CPXXXXXXXXXXXXXXXX
P1	3300-3800	17-24	7	CPxxxxxxxxxxxxxxxP1

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

COMMSC

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 1518 MHz | 1695 – 2180 MHz | 2496 – 2690 MHz | 3300 – 3800

MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-790	790-890	890-960	1427-1518	1695-2180	2490-2690	3300-3800
Gain, dBi	13.4	13.5	13.8	14.9	15.9	16.8	15.9
Beamwidth, Horizontal, degrees	60	60	60	59	68	57	91
Beamwidth, Vertical, degrees	17.2	15.8	15	8.1	6.5	4.9	6.5
Beam Tilt, degrees	2-16	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	21	17	17	17	17	16	16
Front-to-Back Ratio at 180°, dB	30	29	29	31	29	30	28
Coupling level, Amp, Antenna port to Cal port, dB							26
Coupling level, max Amp Δ, Antenna port to Cal port, dB							±2

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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	26	26	26	25	25	25	25
Isolation, Inter-band, dB	26	26	26	28	28	28	28
Isolation, Co-polarization, dB							20
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-130
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	150	75
Electrical Specificati	ions, Bro	adcast 6	55°				
Frequency Band, MHz							3300-3800
Gain, dBi							16.5
Beamwidth, Horizontal, degrees							63
Beamwidth, Vertical, degrees							6.6
USLS (First Lobe), dB							17
Electrical Specifications, Service Beam							
Frequency Band, MHz							3300-3800
Steered 0° Gain, dBi							20.6
Steered 0° Beamwidth, Horizontal, degrees							24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB							27
Steered 0° Horizontal Sidelobe, dB							15
Steered 0° USLS (First Lobe), dB							17
Steered 30° Gain, dBi							19.7
Steered 30° Beamwidth, Horizontal, degrees							27
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB							26

ANDREW.

Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3800
Gain, dBi	19.6
Beamwidth, Horizontal, degrees	32
Front-to-Back Total Power at 180° ± 30°, dB	26
Horizontal Sidelobe, dB	19
USLS (First Lobe), dB	18

Mechanical Specifications

Wind Loading @ Velocity, frontal	498.0 N @ 150 km/h (112.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	148.0 N @ 150 km/h (33.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	597.0 N @ 150 km/h (134.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	342.0 N @ 150 km/h (76.9 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	1686 mm 66.378 in
Weight, gross	50.7 kg 111.774 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

