

20-port sector antenna, 4x 694-960, 4x 1427-2690, 4x 1695-2690 MHz, 65° HPBW and 8x 3300-3800 MHz, 90° HPBW, 7x RET.

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Cluster connectors for the beam-forming array, including eight RF ports plus one calibration port
- Antenna shape optimized for wind load reduction
- Retractable tilt indicator rods
- Includes seven Internal RET's
- S4 array uses MLOC cluster connectors

This product will be discontinued on: December 31, 2025 Replaced By:

RRZZVVS4-65DR7NV4

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General Specifications

Antenna Type Sector and beamforming

BandMultibandCalibration Connector InterfaceM-LOCCalibration Connector Quantity1

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

RF Connector Interface 4.3-10 Female | M-LOC

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 20

Remote Electrical Tilt (RET) Information



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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 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 (Single RET)

Dimensions

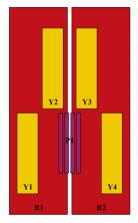
 Width
 430 mm | 16.929 in

 Depth
 197 mm | 7.756 in

 Length
 2769 mm | 109.016 in

 TDD Column Spacing
 42 mm | 1.654 in

Array Layout

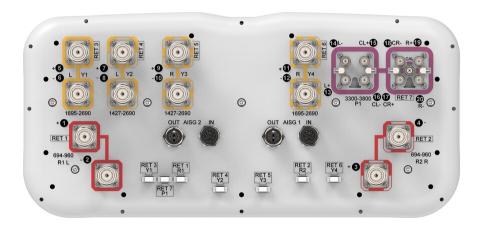


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	694-960	-960 1 - 2		AISG1	CPxxxxxxxxxxxxxxR1		
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2		
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxY1		
Y2	1427-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY2		
Y3	1427-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxXY3		
Y4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxY4		
P1	3300-3800	13 - 20	7	AISG1	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 – 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	880-960	1427-151	81695-220	02300-269	01695-220	02300-269	03300-3800
Gain, dBi	15.6	16.1	16.4	15.4	17.5	18.3	17.3	18.1	15.8
Beamwidth, Horizontal, degrees	63	55	52	66	61	61	64	62	84
Beamwidth, Vertical, degrees	7.7	6.8	6.3	7.1	5.5	4.4	6	4.9	6.3
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	16	19	17	18	15	17	16	21	16
Front-to-Back Ratio at 180°, dB	32	32	32	32	31	31	30	31	27
Coupling level, Amp, Antenna port to Cal port, dB									26
Coupling level, max Amp Δ ,									±2

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Antenna port to Cal port, dB									
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	26	25
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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153	-140
Input Power per Port at 50° C, maximum, watts	250	250	250	200	200	150	200	150	75
Electrical Specifica	tions, E	Broadca	ast 65°	•					
Frequency Band, MHz									3300-3800
Gain, dBi									18.4
Beamwidth, Horizontal, degrees									65
Beamwidth, Vertical, degrees						6.3			
Front-to-Back Total Power at 180° ± 30°, dB						25			
USLS (First Lobe), dB						19			
Electrical Specifications, Service Beam									
Frequency Band, MHz					3300-3800				
Steered 0° Gain, dBi									20.9
Steered 0° Beamwidth, Horizontal, degrees									24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB									28
Steered 0° Horizontal Sidelobe, dB									15
Steered 30° Gain, dBi									19.7
Steered 30° Beamwidth, Horizontal, degrees									29

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Steered 30° Front-to-Back	27
Total Power at 180° ± 30°,	
dB	

Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3800
Gain, dBi	19.8
Beamwidth, Horizontal, degrees	31
Front-to-Back Total Power at 180° ± 30°, dB	27
Horizontal Sidelobe, dB	18

Mechanical Specifications

Packaging and Weights

Wind Loading @ Velocity, frontal	680.0 N @ 150 km/h (152.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	347.0 N @ 150 km/h (78.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,020.0 N @ 150 km/h (229.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	434.0 N @ 150 km/h (97.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Width, packed 530 mm | 20.866 in Depth, packed 356 mm | 14.016 in Length, packed 2897 mm | 114.055 in Weight, gross 70.6 kg | 155.646 lb Weight, net 49.6 kg | 109.349 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



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BSAMNT-4

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.

BSAMNT-M4

Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

