

2-port sector antenna, 2x 694–960, 33° HPBW, 1x RET

• Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

General Specifications

BandSingle bandColorLight Gray (RAL 7035)Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracketPerformance NoteOutdoor usageRadome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit boardReflector MaterialAluminumRF Connector InterfaceBottomRF Connector Location0RF Connector Quantity, high band0RF Connector Quantity, not Band2RF Connector Quantity, total2	Antenna Type	Sector
Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracketPerformance NoteOutdoor usageRadome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit boardReflector MaterialAluminumRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band0RF Connector Quantity, mid band2	Band	Single band
bracketPerformance NoteOutdoor usageRadome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit boardReflector MaterialAluminumReflector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band0RF Connector Quantity, mid band0RF Connector Quantity, low band2	Color	Light Gray (RAL 7035)
Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit boardReflector MaterialAluminumRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band0RF Connector Quantity, mid band0RF Connector Quantity, mid band2	Grounding Type	, ,
Radiator MaterialLow loss circuit boardReflector MaterialAluminumRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band0RF Connector Quantity, mid band0RF Connector Quantity, now band2	Performance Note	Outdoor usage
Reflector MaterialAluminumRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band0RF Connector Quantity, mid band0RF Connector Quantity, nid band0RF Connector Quantity, low band2	Radome Material	Fiberglass, UV resistant
RF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band0RF Connector Quantity, mid band0RF Connector Quantity, mid band2	Radiator Material	Low loss circuit board
RF Connector LocationBottomRF Connector Quantity, high band0RF Connector Quantity, mid band0RF Connector Quantity, low band2	Reflector Material	Aluminum
RF Connector Quantity, high band0RF Connector Quantity, mid band0RF Connector Quantity, low band2	RF Connector Interface	4.3-10 Female
RF Connector Quantity, mid band0RF Connector Quantity, low band2	RF Connector Location	Bottom
RF Connector Quantity, low band 2	RF Connector Quantity, high band	0
	RF Connector Quantity, mid band	0
RF Connector Quantity, total 2	RF Connector Quantity, low band	2
	RF Connector Quantity, total	2

Remote Electrical Tilt (RET) Information

RET Interface8-pin DIN Female 8-pin DIN MaleRET Interface, quantity1 female 1 maleInput Voltage10-30 VdcInternal RETLow band (1)Power Consumption, active state, maximum10 WPower Consumption, idle state, maximum2 WProtocol3GPP/AISG 2.0 (Single RET)	RET Hardware	CommRET v2
Input Voltage10-30 VdcInternal RETLow band (1)Power Consumption, active state, maximum10 WPower Consumption, idle state, maximum2 W	RET Interface	8-pin DIN Female 8-pin DIN Male
Internal RETLow band (1)Power Consumption, active state, maximum10 WPower Consumption, idle state, maximum2 W	RET Interface, quantity	1 female 1 male
Power Consumption, active state, maximum10 WPower Consumption, idle state, maximum2 W	Input Voltage	10-30 Vdc
Power Consumption, idle state, maximum 2 W	Internal RET	Low band (1)
	Power Consumption, active state, maximum	10 W
Protocol 3GPP/AISG 2.0 (Single RET)	Power Consumption, idle state, maximum	2 W
	Protocol	3GPP/AISG 2.0 (Single RET)

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Dimensions

Width	579 mm 22.795 in
Depth	212 mm 8.346 in
Length	2658 mm 104.646 in
Net Weight, antenna only	35.3 kg 77.823 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	33°	1	AISG1	CPxxxxxxxxxxxxxxxR1

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

Port Configuration



Electrical Specifications

Impedance

50 ohm

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Operating Frequency Band	694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	500 W

Electrical Specifications

	R1	R1	R1
Frequency Band, MHz	698-806	790-894	890-960
RF Port	1,2	1,2	1,2
Gain, dBi	19.1	19.5	20
Beamwidth, Horizontal, degrees	37	33	32
Beamwidth, Vertical, degrees	8.8	7.8	7.4
Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	22	21	22
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	36	33	33
Isolation, Cross Polarization, dB	28	28	28
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300

Mechanical Specifications

Wind Loading @ Velocity, frontal	754.0 N @ 150 km/h (169.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	282.0 N @ 150 km/h (63.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	764.0 N @ 150 km/h (171.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	678 mm 26.693 in
Depth, packed	315 mm 12.402 in
Length, packed	2900 mm 114.173 in
Weight, gross	54.9 kg 121.034 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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REACH-SVHC

ROHS

Compliant as per SVHC revision on www.andrew.com/ProductCompliance

UK-ROHS

Compliant

Compliant

Included Products

BSAMNT-B92-04

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, one middle bracket set and one bottom bracket set

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

