

RRZZV6-65D-R10



20-port sector antenna, 4x694-960 (R1 & R2), 4x1427-2690 (Y3 & Y5) and 12 x 1695-2690 MHz (Y1/Y2/Y4/Y6/Y7/Y8), 65° HPBW, 10xRET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Antenna shape optimized for wind load reduction
- RET configuration is factory pre-set for antenna sharing - RET 1, 3, 5, 6, 7 assigned to AISG 2 and RET 2, 4, 8, 9, 10 assigned to AISG 1

General Specifications

Antenna Type	Sector
Band	Multiband
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
RF Connector Location	Bottom
RF Connector Quantity, high band	0
RF Connector Quantity, mid band	16
RF Connector Quantity, low band	4
RF Connector Quantity, total	20

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 RET	Low band (2) Mid band (8)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W

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Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, antenna only 46.7 kg | 102.956 lb

Array Layout

Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG2	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxR2
Y3	1427-2690	5 - 6	3	AISG2	CPxxxxxxxxxxxxxxxxY3
Y5	1427-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxxY5
Y1	1695-2690	9 - 10	5	AISG2	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	11 - 12	6	AISG2	CPxxxxxxxxxxxxxxxxY2
Y4	1695-2690	13 - 14	7	AISG2	CPxxxxxxxxxxxxxxxxY4
Y6	1695-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxxxxY6
Y7	1695-2690	17 - 18	9	AISG1	CPxxxxxxxxxxxxxxxxY7
Y8	1695-2690	19 - 20	10	AISG1	CPxxxxxxxxxxxxxxxxY8

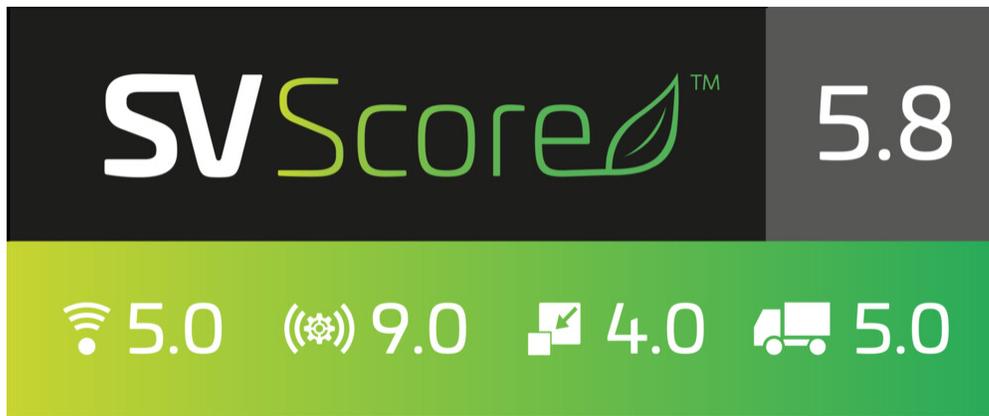
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Logo Image

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2,Y4,Y6,Y7,Y8
Frequency Band, MHz	698–806	790–896	890–960	1695–1990
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	9 to 20
Gain at Mid Tilt, dBi	16.2	16.3	16.3	16.4
Beamwidth, Horizontal, degrees	67	62	63	70
Beamwidth, Vertical, degrees	8.5	7.6	7	7.3
Beam Tilt, degrees	2–14	2–14	2–14	2–12
USLS (First Lobe), dB	19	20	24	16
Front-to-Back Ratio at 180°, dB	35	31	31	34
Front-to-Back Total Power at 180° ± 30°, dB	23	22	22	29
CPR at Boresight, dB	31	24	24	23
CPR at Sector, dB	10	7	8	8
Isolation, Cross Polarization, dB	28	28	28	25
Isolation, Inter-band, dB	28	28	28	25
VSWR Return loss, dB	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
Input Power per Port at 50°C,	250	250	250	200

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maximum, watts

Electrical Specifications

	Y1,Y2,Y4,Y6,Y7,Y8	Y1,Y2,Y4,Y6,Y7,Y8	Y1,Y2,Y4,Y6,Y7,Y8	Y3,Y5
Frequency Band, MHz	1920–2300	2300–2500	2490–2690	1427–1518
RF Port	9 to 20	9 to 20	9 to 20	5,6,7,8
Gain at Mid Tilt, dBi	17.3	17.9	18.1	15.4
Beamwidth, Horizontal, degrees	62	56	56	66
Beamwidth, Vertical, degrees	6.5	5.7	5.3	9.2
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	20	21	17
Front-to-Back Ratio at 180°, dB	33	31	31	34
Front-to-Back Total Power at 180° ± 30°, dB	28	27	27	28
CPR at Boresight, dB	22	20	20	22
CPR at Sector, dB	6	6	4	9
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	200	200	200	200

Electrical Specifications

	Y3,Y5	Y3,Y5	Y3,Y5	Y3,Y5
Frequency Band, MHz	1695–1990	1920–2300	2300–2500	2490–2690
RF Port	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8
Gain at Mid Tilt, dBi	16.7	17.4	18	18
Beamwidth, Horizontal, degrees	62	55	52	53
Beamwidth, Vertical, degrees	7.5	6.8	6	5.5
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	16	16	17
Front-to-Back Ratio at 180°, dB	38	37	34	34
Front-to-Back Total Power at 180° ± 30°, dB	32	31	29	28
CPR at Boresight, dB	21	21	25	22
CPR at Sector, dB	8	5	6	2

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Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	970.0 N @ 150 km/h (218.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	304.0 N @ 150 km/h (68.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,162.0 N @ 150 km/h (261.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	667.0 N @ 150 km/h (149.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	318 mm 12.52 in
Length, packed	2809 mm 110.591 in
Weight, gross	66.5 kg 146.607 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
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

- | | | |
|-----------|---|--|
| 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. |

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* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 4.6 kg | 10.141 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

