

12-port sector antenna, 4x 694–960, 4x 1427–2690 and 4x 1695-2690 MHz, 65° HPBW, 6x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

General Specifications

Antenna Type Sector

Band Multiband

Grounding TypeRF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note

Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Radiator Material Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, high band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 12

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 High band (4) | Low band (2)

Power Consumption, idle state, maximum 1 W Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

COMMSCOPE®

Dimensions

Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 1848 mm | 72.756 in

Net Weight, without mounting kit 37.5 kg | 82.673 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxY1
Y2	1427-2690	7-8	4	CPxxxxxxxxxxxxxY2
Y3	1427-2690	9-10	5	CPxxxxxxxxxxxxxXY3
Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxxY4

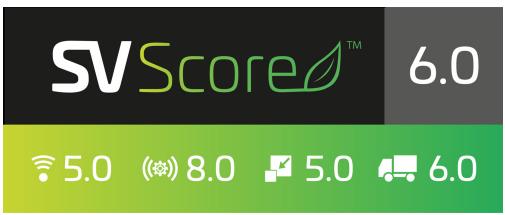
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration

Bottom



Logo Image



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&Y4 Y1&Y4 Y2&Y3 Y2&Y3 Y2&Y3

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Frequency Band, MHz	694-790	790-890	890-960	1695-220	00 2300-269	0 1427-151	8 1695-220	00 2300-2690
Gain, dBi	14.3	14.6	14.7	17.9	18.3	15.9	17.6	17.9
Beamwidth, Horizontal, degrees	70	65	63	64	57	65	62	60
Beamwidth, Vertical, degrees	11.5	10.3	9.3	6.4	5	8.6	6.8	5.1
Beam Tilt, degrees	2-14	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	17	17	17	18	20	16	16
Front-to-Back Ratio at 180°, dB	34	30	27	32	29	34	34	31
Isolation, Cross Polarization, dB	27	27	27	27	27	26	26	27
Isolation, Inter-band, dB	27	27	27	27	27	27	27	27
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	200	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1695-220	0 2300-269	0 1427-151	8 1695-220	0 2300-2690
Gain by all Beam Tilts, average, dBi	13.9	14.2	14.4	16.9	17.9	15.4	16.6	17.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.6	±1.1	±0.6	±0.5	±0.9	±0.9
Gain by Beam Tilt, average, dBi	2° 14.1 8° 14.0 14° 13.5	2° 14.3 8° 14.3 14° 13.8	2° 14.7 8° 14.6 14° 13.8	2° 16.5 7° 17.1 12° 16.9	2° 17.4 7° 18.1 12° 17.8	2° 15.1 7° 15.4 12° 15.6	2° 16.3 7° 16.8 12° 16.6	2° 16.6 7° 17.5 12° 17.3
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.9	±0.8	±0.8	±0.4	±0.5	±0.8	±0.5
USLS, beampeak to 20° above beampeak, dB	17	17	15	15	15	13	15	16
Front-to-Back Total Power at 180° ± 30°, dB	20	20	20	25	24	26	28	26
CPR at Boresight, dB	21	20	22	17	17	19	19	16

Mechanical Specifications

Wind Loading @ Velocity, frontal	694.0 N @ 150 km/h (156.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	235.0 N @ 150 km/h (52.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	571.0 N @ 150 km/h (128.4 lbf @ 150 km/h)

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Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 368 mm | 14.488 in

 Length, packed
 2034 mm | 80.079 in

 Weight, gross
 52.4 kg | 115.522 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

