

16-port, sector antenna, RF port assignments are as follows: R1+R2 = 694-960, Y2+Y4 = 1427-2690MHz, B1+B2 = 1695-2180 and Y1+Y3 = 2490-2690 MHz, 65° horizontal beamwidth, 6x Internal RET. B1+B2 and Y1+Y3 share common RET, 2.7m

- 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
- A common electrical tilt setting is shared by RF Ports B1+B2 and Y1+Y3
- Electrical tilt settings applicable to RF Ports R1, R2, Y2, Y4 can be set independently (See Array Layout and RET Table below)
- New endcap designs provide improved wind loading performance

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location

RF Connector Quantity, mid band

12

RF Connector Quantity, low band

4

RF Connector Quantity, total

16

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

COMMSCOPE®

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

Power Consumption, active state, maximum $8~\mathrm{W}$ Power Consumption, idle state, maximum $1~\mathrm{W}$

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

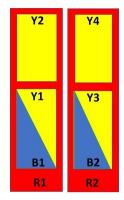
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2688 mm | 105.827 in

 Net Weight, antenna only
 50.7 kg | 111.774 lb

Array Layout



	Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
I	R1	694-960	1-2	1	CPxxxxxxxxxxxxxxXR1
	R2	694-960	3-4	2	CPxxxxxxxxxxxxxxR2
	Y2	1427-2690	11-12	5	CPxxxxxxxxxxxxxxY2
	Y4	1427-2690	15-16	6	CPxxxxxxxxxxxxx4
	B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxB1
	B2	1695-2180	7-8	3	CFAAAAAAAAAAAAAAA
	Y1	2490-2690	9-10	4	CPxxxxxxxxxxxxY1
	Y3	2490-2690	13-14	4	CPXXXXXXXXXXXXXXXII

Left Right (Sizes of colored boxes are not true depictions of array sizes or location) Bottom

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 694 – 960

MHz

Polarization ±45°

Total Input Power, maximum $900~\mathrm{W} \ @ \ 50~\mathrm{^{\circ}C}$

Electrical Specifications

'	R1,R2	R1,R2	B1,B2	B1,B2	Y1,Y3	Y2,Y4	Y2,Y4	Y2,Y4
5 5 11411	-	-			-	•	•	•
Frequency Band, MHz	694-862	880-960	1695-1880	1920-2180	2490-2690	142/-1518	1695-2180	2300-2690
RF Port	1-4	1-4	5-8	5-8	9,10,13,14	11,12,15,16	11,12,15,16	11,12,15,16
Gain, dBi	16.2	16.7	16.8	17.3	16.9	15.1	16.9	17.3
Beamwidth, Horizontal, degrees	68	61	58	60	68	67	59	62
Beamwidth, Vertical, degrees	8.1	7	7.6	6.8	5.7	9.6	7.3	5.6
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	20	18	20	17	16	17	19
Front-to-Back Ratio at 180°, dB	31	32	35	36	32	33	38	31
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30	30	30	30
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

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PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C,	300	300	250	250	150	250	250	200
maximum, watts								

Electrical Specifications, BASTA

Frequency Band, MHz	694-862	880-960	1695-188	0 1920-218	0 2490-269	0 1427-151	8 1695–218	0 2300-2690
Gain by all Beam Tilts, average, dBi	15.8	16.4	16.4	17	16.4	14.5	16.4	16.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.6	±0.4	±0.6	±0.8	±0.7	±0.7
Beamwidth, Horizontal Tolerance, degrees	±3.5	±5.1	±4.1	±2.9	±5.4	±3.9	±4.6	±7.4
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.4	±0.4	±0.6	±0.3	±0.9	±0.9	±0.5
USLS, beampeak to 20° above beampeak, dB	15	16	14	17	16	14	16	13
Front-to-Back Total Power at 180° ± 30°, dB	20	23	30	29	25	27	30	26
CPR at Boresight, dB	24	24	18	21	16	17	21	19

Mechanical Specifications

Effective Projective Area (EPA), frontal $0.89 \text{ m}^2 \mid 9.58 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.27 \text{ m}^2 \mid 2.906 \text{ ft}^2$

 Wind Loading @ Velocity, frontal
 944.0 N @ 150 km/h (212.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 292.0 N @ 150 km/h (65.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,130.0 N @ 150 km/h (254.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 650.0 N @ 150 km/h (146.1 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
 2935 mm | 115.551 in

 Weight, gross
 71.7 kg | 158.071 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-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

