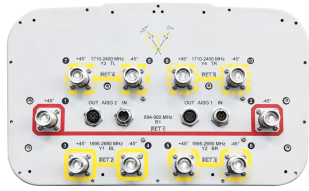


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10-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz 65° HPBW and 4x 1710–2400 MHz 2x 33° HPBW, 5x RET.

- All Internal RET actuators are connected in “Cascaded SRET” configuration

Electrical Specifications

	R1	R1	Y1-Y2	Y1-Y2	Y1-Y2	Y3-Y4	Y3-Y4	Y3-Y4
Frequency Band, MHz	694–790	790–960	1695–1920	1920–2180	2300–2690	1710–1880	1920–2180	2300–2400
Gain, dBi	15.0	15.3	16.6	17.0	17.3	16.4	17.8	18.0
Beam Centers, Horizontal, degrees						±27	±27	±27
Beamwidth, Horizontal, degrees	68	66	62	63	66	33	31	27
Beamwidth, Vertical, degrees	11.9	10.5	8.9	8.0	6.6	10.2	9.2	8.3
Beam Tilt, degrees	2–14	2–14	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	21	20	18	18	20	20	21	24
Front-to-Back Ratio at 180°, dB	31	32	36	36	30	28	35	35
Isolation, Cross Polarization, dB	28	28	26	26	26	25	25	25
Isolation, Inter-band, dB	28	28	28	28	28	28	28	28
VSWR Return Loss, dB	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

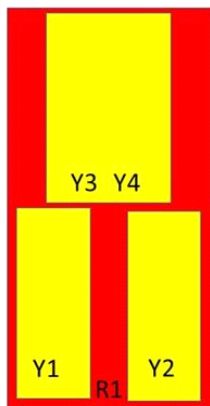
Frequency Band, MHz	694–790	790–960	1695–1920	1920–2180	2300–2690	1710–1880	1920–2180	2300–2400
Gain by all Beam Tilts, average, dBi	14.8	15.1	16.1	16.7	16.8	15.9	17.4	17.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.6	±0.4	±0.5	±0.9	±0.6	±1.5
Gain by Beam Tilt, average, dBi	2° 14.8 8° 14.8 14° 14.6	2° 15.2 8° 15.1 14° 14.8	2° 16.1 7° 16.2 12° 16.1	2° 16.5 7° 16.7 12° 16.7	2° 16.6 7° 17.0 12° 16.7	2° 15.9 7° 16.0 12° 15.7	2° 17.2 7° 17.5 12° 17.2	2° 17.5 7° 17.7 12° 16.9
Beamwidth, Horizontal Tolerance, degrees	±1.5	±1.9	±3.3	±3.7	±5	±1.5	±1.6	±0.9
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.7	±0.6	±0.5	±0.5	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	21	15	16	18	14	20	19	19
Front-to-Back Total Power at 180° ± 30°, dB	25	24	29	26	25	22	28	27
CPR at Boresight, dB	17	17	18	21	16	18	20	15
CPR at Sector, dB	10	9	13	12	7			
CPR at 10 dB Horizontal Beamwidth, dB						7	11	7

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the](#)

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[whitepaper Time to Raise the Bar on BSAs.](#)

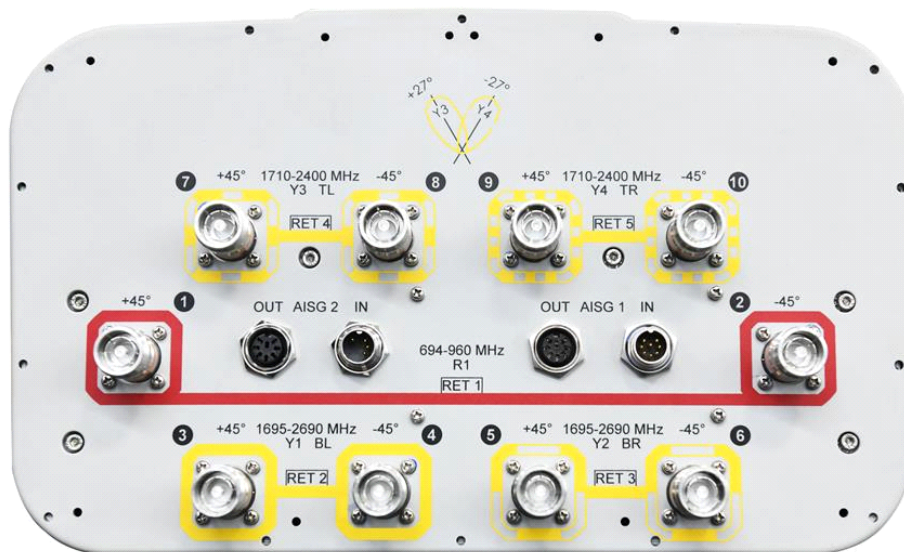
Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2690	3-4	2	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	5-6	3	CPxxxxxxxxxxxxxxxxY2
Y3	1710-2400	7-8	4	CPxxxxxxxxxxxxxxxxY3
Y4	1710-2400	9-10	5	CPxxxxxxxxxxxxxxxxY4

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

Port Configuration



General Specifications

Operating Frequency Band	1695 – 2690 MHz 1710 – 2400 MHz 694 – 960 MHz
Antenna Type	Multibeam
Band	Multiband
Performance Note	Outdoor usage
Total Input Power, maximum	1,000 W @ 50 °C

Mechanical Specifications

RF Connector Quantity, total	10
RF Connector Quantity, low band	2
RF Connector Quantity, high band	8
RF Connector Interface	4.3-10 Female
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	334.0 N @ 150 km/h 78.2 lbf @ 150 km/h
Wind Loading, lateral	282.0 N @ 150 km/h 63.4 lbf @ 150 km/h
Wind Loading, maximum	159.2 lbf @ 150 km/h 708.0 N @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	1996.0 mm 78.6 in
Width	350.0 mm 13.8 in
Depth	208.0 mm 8.2 in
Net Weight, without mounting kit	28.2 kg 62.2 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal RET	High band (4) Low band (1)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male

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Packed Dimensions

Length	2136.0 mm 84.1 in
Width	456.0 mm 18.0 in
Depth	357.0 mm 14.1 in
Shipping Weight	42.2 kg 93.0 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

ISO 9001:2015

China RoHS SJ/T 11364-2014

Classification

Compliant by Exemption

Designed, manufactured and/or distributed under this quality management system

Above Maximum Concentration Value (MCV)



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