

14-port sector antenna, 2x 694–862, 2x 880-960, 2x 694-960 and 8x 1695–2690 MHz, 65° HPBW, 6x RET

- 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 Y2/Y4 for MIMO 4X4 purposes

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 MaterialFiberglass, UV resistantRadiator MaterialLow 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 6
RF Connector Quantity, total 14

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 (3) | Low band (3)

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

Protocol 3GPP/AISG 2.0 (Single RET)



Dimensions

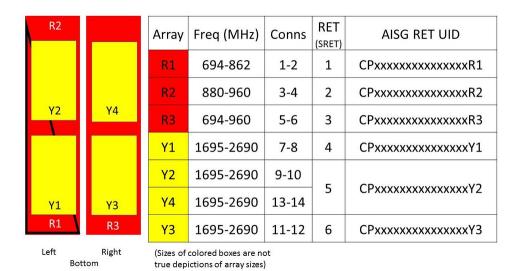
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2688 mm | 105.827 in

Net Weight, without mounting kit 59.8 kg | 131.836 lb

Array Layout



Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 694 – 862 MHz | 694 – 960 MHz | 880 – 960

MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

'								
	R1	R2	R3	R3	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	694-862	880-960	694-890	880-960	1695-192	0 1920–218	0 2300-250	0 2500-2690
Gain, dBi	15.7	16.2	16.3	17	17.2	18	18.3	17.9
Beamwidth, Horizontal, degrees	68	62	68	62	60	61	64	69
Beamwidth, Vertical, degrees	8	6.9	7.8	6.8	7.4	6.6	5.6	5.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	17	14	17	20	20	17	16
Front-to-Back Ratio at 180°, dB	30	31	30	31	36	37	34	32
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28	28

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Isolation, Inter-band, dB	28	28	28	28	28	28	28	28
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	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	250	300	300	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-862	880-960	694-890	880-960	1695-192	0 1920-218	0 2300-250	0 2500-2690
Gain by all Beam Tilts, average, dBi	15.4	15.9	16	16.7	16.7	17.5	17.8	17.4
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.6	±0.3	±0.8	±0.5	±0.6	±0.5
Gain by Beam Tilt, average, dBi	2° 15.4 7° 15.5 12° 15.3	2° 15.9 7° 16.0 12° 15.7	2° 16.0 7° 16.1 12° 15.8	2° 16.7 7° 16.9 12° 16.5	2° 16.5 7° 16.8 12° 16.7	2° 17.1 7° 17.6 12° 17.5	2° 17.4 7° 17.9 12° 17.8	2° 17.1 7° 17.6 12° 17.3
Beamwidth, Horizontal Tolerance, degrees	±5.6	±4.4	±4.1	±4.3	±4.1	±2.8	±5.7	±5.1
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.8	±0.4	±0.5	±0.5	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	14	16	13	16	14	16	15	13
Front-to-Back Total Power at 180° ± 30°, dB	20	22	21	23	30	30	28	27
CPR at Boresight, dB	24	24	25	25	19	22	18	17
CPR at Sector, dB	9	7	7	8	9	9	9	6

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 880.0 N @ 150 km/h (197.8 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
 78.2 kg | 172.401 lb

COMMSCOPE®

Regulatory Compliance/Certifications

Classification **Agency**

CHINA-ROHS Above maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

ROHS Compliant/Exempted Compliant/Exempted **UK-ROHS**





Included Products

Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. BSAMNT-4

Kit contains one scissor top bracket set and one bottom bracket set.

Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round BSAMNT-M4

members. Kit contains one scissor bracket set.

* Footnotes

Severe environmental conditions may degrade optimum performance **Performance Note**

