

12-port sector antenna, 4x 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

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

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, mid 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 Low band (2) | Mid band (4)

Power Consumption, active state, maximum 8 W
Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

Dimensions

COMMSCOPE®

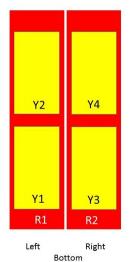
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2438 mm | 95.984 in

Net Weight, antenna only 46.3 kg | 102.074 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxXY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxXY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxXY3
Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxY4

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

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Frequency Band, MHz	698-806	790-896	890-960	1695-1990	1920-2300	2300-2500	2490-2690
Beamwidth, Horizontal, degrees	71	70	65	60	61	60	65
Beamwidth, Vertical, degrees	9.7	8.8	8.2	7.7	6.9	6.1	5.8
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	18	16	18	18	18	17
Front-to-Back Ratio at 180°, dB	33	35	34	37	38	35	33
Front-to-Back Total Power at 180° ± 30°, dB	20	22	24	31	29	28	27
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25

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

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-896	890-960	1695-1990	1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	15.1	15.5	15.7	16.6	17.2	17.4	16.9
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.4	±0.8	±0.7	±0.7	±0.7
Beamwidth, Horizontal Tolerance, degrees	±3.5	±4.3	±5	±3.6	±3.3	±5	±5.6
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6	±0.5	±0.5	±0.6	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	16	15	5	15	15	14	13
CPR at Boresight, dB	25	25	25	20	21	17	15
CPR at Sector, dB	7	6	9	10	8	8	6

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 948.0 N @ 150 km/h (213.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 305.0 N @ 150 km/h (68.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,331.0 N @ 150 km/h (299.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 751.0 N @ 150 km/h (168.8 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
 2685 mm | 105.709 in

 Weight, gross
 66.2 kg | 145.946 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.

BSAMNT-M – 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

