

20-port sector antenna, 4x 617-894, 8x 1695-2690 MHz 65° HPBW and 8x 3300-3800 MHz, 90° HPBW, 7x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Cluster connectors for the beam-forming array, including eight RF ports plus one calibration port

General Specifications

Antenna Type Sector- and beamforming

BandMultibandCalibration Connector InterfaceM-LOCCalibration Connector Quantity1

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 | M-LOC

RF Connector LocationBottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 20

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (1) | Low band (2) | Mid band (4)

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

COMMSC PE°

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 498 mm | 19.606 in

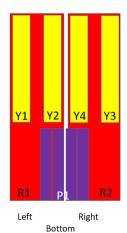
Depth 197 mm | 7.756 in

Length 2000 mm | 78.74 in

Net Weight, antenna only 43 kg | 94.799 lb

TDD Column Spacing 42 mm | 1.654 in

Array Layout

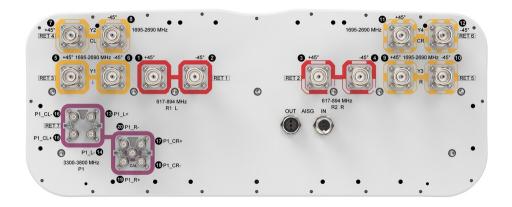


Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	617-894	1-2	1	CPxxxxxxxxxxxxxxXR1
R2	617-894	3-4	2	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxxxY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxxXY3
Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxxY4
P1	3300-3800	13-20	7	CPxxxxxxxxxxxxxxXP1

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 3300 – 3800 MHz | 617 – 894 MHz

Polarization ±45°

Total Input Power, maximum 1,400 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	Y1,Y3	Y1,Y3	Y1,Y3	Y1,Y3	Y2,Y4
Frequency Band, MHz	617-698	698-894	1695-1880	1850-1990	1920-2200	2490-2690	1695-1880
RF Port	1,2,3,4	1,2,3,4	5,6,9,10	5,6,9,10	5,6,9,10	5,6,9,10	7,8,11,12
Gain, dBi	13.7	14.7	16	16.4	16.5	17	15.8
Beamwidth, Horizontal, degrees	69	60	70	71	69	55	62
Beamwidth, Vertical, degrees	13.8	11.8	7.6	7.2	6.9	5.7	8.1
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	15	17	19	19	20	17
Front-to-Back Ratio at 180°, dB	28	29	34	33	32	25	36
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	250	250	200	200	200	200	200
Electrical Specifica	tions, B <i>P</i>	ASTA					
Frequency Band, MHz	617-698	698-894	1695-1880	1850-1990	1920-2200	2490-2690	1695-1880
Gain by all Beam Tilts, average, dBi	13.4	14.2	15.4	16.1	16.2	16.6	15.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.7	±1	±0.4	±0.4	±0.7	±0.9
Beamwidth, Horizontal Tolerance, degrees	±6.5	±6.1	±5.8	±4.7	±3.8	±4.6	±6.1
Beamwidth, Vertical Tolerance, degrees	±0.9	±1.4	±0.7	±0.4	±0.6	±0.4	±0.7
USLS, beampeak to 20° above beampeak, dB		15	12	14	14	13	12
Front-to-Back Total Power at 180° ± 30°, dB	21	21	24	26	25	19	25
CPR at Boresight, dB	16	16	17	19	18	19	18
CPR at Sector, dB	9	7	9	8	7	3	7

Electrical Specifications

	Y2,Y4	Y2,Y4	Y2,Y4	P1
Frequency Band, MHz	1850-1990	1920-2200	2490-2690	3300-3800
RF Port	7,8,11,12	7,8,11,12	7,8,11,12	13,14,15,16,17,18,19,20
Gain, dBi	16	16.2	16.5	15.7
Beamwidth, Horizontal, degrees	64	62	59	86
Beamwidth, Vertical, degrees	7.8	7.4	6.1	6.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	18	17	15
Front-to-Back Ratio at 180°, dB	37	36	31	28
Coupling level, Amp, Antenna port to Cal port, dB				26
Coupling level, max Amp Δ , Antenna port to Cal port, dB				±2

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Coupler, max Amp Δ, Antenna port to Cal port, dB				0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees				7
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
Isolation, Co-polarization, dB				20
VSWR Return loss, dB	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	-140
Input Power per Port at 50° C, maximum, watts	200	200	200	75

Electrical Specifications, BASTA

Frequency Band, MHz	1850-1990	1920-2200	2490-2690	3300-3800
Gain by all Beam Tilts, average, dBi	15.7	15.9	16.1	15.1
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.5	±0.7
Beamwidth, Horizontal Tolerance, degrees	±4.9	±5.3	±5.9	±16.6
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.6	±0.4	±0.6
USLS, beampeak to 20° above beampeak, dB	14	15	13	13
Front-to-Back Total Power at 180° ± 30°, dB	28	28	25	22
CPR at Boresight, dB	21	20	17	15
CPR at Sector, dB	8	8	5	6

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-3800
Gain, dBi	17.3
Beamwidth, Horizontal, degrees	65
Beamwidth, Vertical, degrees	6.2
Front-to-Back Total Power	25

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at 180° ± 30°, dB	
USLS (First Lobe), dB	20
Electrical Specifications, Service Beam	

Frequency Band, MHz	3300-3800
Steered 0° Gain, dBi	20.3
Steered 0° Beamwidth, Horizontal, degrees	25
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	29
Steered 0° Horizontal Sidelobe, dB	14
Steered 30° Gain, dBi	19.7
Steered 30° Beamwidth, Horizontal, degrees	27
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	28

Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3800
Gain, dBi	19.1
Beamwidth, Horizontal, degrees	32
Front-to-Back Total Power at 180° ± 30°, dB	27
Horizontal Sidelobe, dB	18

Mechanical Specifications

Wind Loading @ Velocity, frontal	759.0 N @ 150 km/h (170.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	259.0 N @ 150 km/h (58.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	984.0 N @ 150 km/h (221.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	625.0 N @ 150 km/h (140.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed 565 mm | 22.244 in

COMMSCOPE®

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2187 mm | 86.102 in

 Weight, gross
 56.8 kg | 125.222 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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Regulatory Compliance/Certifications

Agency Classification CHINA-ROHS Below maximum concentration value ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance ROHS Compliant UK-ROHS Compliant





