

12-port sector antenna, 4x 698-896 and 8x 1695-2360 MHz, 65° HPBW, 3x RET, 3x SBT.

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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4 3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high 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 3 female | 3 male

Input Voltage 10-30 Vdc

Internal Bias TeePort 1 | Port 5 | Port 9Internal RETHigh band (2) | Low band (1)

Power Consumption, active state, maximum 13 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Page 1 of 4



Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2438 mm | 95.984 in

Net Weight, antenna only 50 kg | 110.231 lb

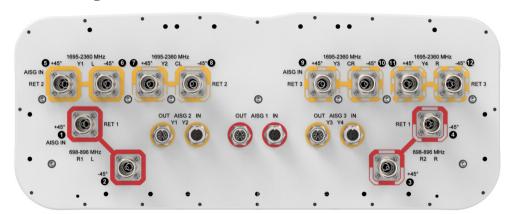
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
R1	698-896	1 - 2	1	CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
R2	698-896	3 - 4	'	CPXXXXXXXXXXXXXXX
Y1	1695-2360	5 - 6	2	CPxxxxxxxxxxxxxY1
Y2	1695-2360	7 - 8	2	CPXXXXXXXXXXXXXX
Y3	1695-2360	9 - 10	2	CD
Y4	1695-2360	11 - 12	3	CPxxxxxxxxxxxxxY3

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

COMMSCOPE®

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	15.4	16.2	17.3	17.8	18.4	18.5
Beamwidth, Horizontal, degrees	72	65	69	69	64	59
Beamwidth, Vertical, degrees	9.5	8.3	5.6	5.2	5	4.6
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	15	18	19	21	21	23
Front-to-Back Ratio at 180°, dB	31	31	34	34	35	36
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	15.1	15.9	16.8	17.3	17.9	18
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.6	±0.7	±0.7	±0.6
Beamwidth, Horizontal Tolerance, degrees	±8.2	±2.2	±8.3	±9.4	±6.6	±5
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.3	±0.2	±0.3	±0.1
USLS, beampeak to 20° above beampeak, dB	15	17	17	17	18	16
Front-to-Back Total Power at 180° ± 30°, dB	23	23	28	27	28	28
CPR at Boresight, dB	20	23	20	22	20	19
CPR at Sector, dB	11	10	9	8	8	6

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 954.0 N @ 150 km/h (214.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 331.0 N @ 150 km/h (74.4 lbf @ 150 km/h)

COMMSCOPE®

Wind Loading @ Velocity, maximum 1,235.0 N @ 150 km/h (277.6 lbf @ 150 km/h)

 $\textbf{Wind Loading @ Velocity, rear} \qquad \qquad 785.0 \text{ N} \textcircled{a} 150 \text{ km/h} (176.5 \text{ lbf} \textcircled{a} 150 \text{ km/h})$

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
 69.9 kg | 154.103 lb

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



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

