

4-port sector antenna, 2x 698-896 and 2x 1710-2360 MHz, 65° HPBW, 2x RET

• Interleaved dipole technology providing for attractive, low wind load mechanical package

OBSOLETE

This product was discontinued on: March 30, 2022

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding Type RF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 7-16 DIN Female

RF Connector Location Bottom

RF Connector Quantity, high band 2
RF Connector Quantity, low band 2
RF Connector Quantity, total 4

Remote Electrical Tilt (RET) Information

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 (1)

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 ${\bf Power~Consumption, idle~state, maximum} \qquad \qquad 2~{\rm W} \\$

Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 301 mm | 11.85 in

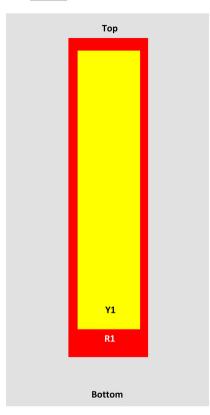
Depth 181 mm | 7.126 in

Length 2451 mm | 96.496 in

Net Weight, without mounting kit 22.5 kg | 49.604 lb

Array Layout

SBNH....-SR



rray	Freq (MHz)	Conns	RET (SRET)	AISG RET UID		
RI	698-896	1-2	1	ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
V1	1710-2360	3-4	2	ANyyyyyyyyyyyyyyy		

View from the front of the antenna

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

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1710 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1710-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	16.1	15.6	17.6	17.8	18.3	18.3
Beamwidth, Horizontal, degrees	66.2	64	70.8	64.6	63	58
Beamwidth, Vertical, degrees	8.8	7.8	5.7	5.2	5	4.4
Beam Tilt, degrees	0-11	0-11	0-7	0-7	0-7	0-7
USLS (First Lobe), dB	13	12	16	15	17	18
Front-to-Back Ratio at 180°, dB	30	34	32	29	28	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
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, maximum, watts	400	400	350	350	350	300

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1710-1880	1850-1990	1920-2200	2300-2360
Gain by all Beam Tilts, average, dBi	15.8	15.3	17.3	17.7	18	18.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.7	±0.4	±0.3	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0° 15.7 5° 15.9 11° 15.6	0° 15.3 5° 15.4 11° 15.0	0° 17.3 4° 17.3 7° 17.2	0° 17.6 4° 17.8 7° 17.6	0 ° 17.9 4 ° 18.0 7 ° 18.0	0° 18.0 4° 18.2 7° 18.2
Beamwidth, Horizontal Tolerance, degrees	±1.2	±2.2	±3.7	±4.3	±3.2	±3.5
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.6	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	13	11	16	15	16	15
Front-to-Back Total Power at 180° ± 30°, dB	25	23	27	25	25	26

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CPR at Boresight, dB	30	25	18	19	18	22
CPR at Sector, dB	15	11	15	12	11	5

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 395.0 N @ 150 km/h (88.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 332.0 N @ 150 km/h (74.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 761.0 N @ 150 km/h (171.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 400.0 N @ 150 km/h (89.9 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 409 mm | 16.102 in

 Depth, packed
 299 mm | 11.772 in

 Length, packed
 2572 mm | 101.26 in

 Weight, gross
 35.2 kg | 77.603 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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

