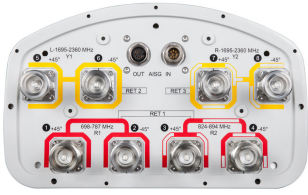


SBJAHH-1D65C-DL



8-port sector antenna, 2x 698–787, 2x 824–894 and 4x 1695–2360 MHz, 65°HPBW, 3x RET and low bands have diplexers

- Independent tilt for high bands and single tilt for low bands
- Interleaved dipole technology providing for attractive, low wind load mechanical package

OBSOLETE

This product was discontinued on: November 30, 2023

Replaced By:

NNH4-65C-R8D

8 ft, 12-Port Multiband Antenna, 4 x 698-894, 8 x 1695-2360 MHz, independent tilt for the 700 and 850 MHz bands through diplexing of the low band arrays, 8 x RETs

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 Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Copper Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

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

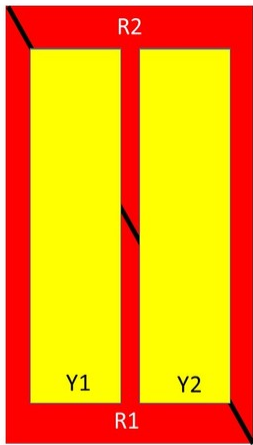
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Internal RET	High band (2) Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Multi-RET)

Dimensions

Width	301 mm 11.85 in
Depth	181 mm 7.126 in
Length	2453 mm 96.575 in
Net Weight, without mounting kit	26 kg 57.32 lb

Array Layout



Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	698-787	1-2	1	Arxxxxxxxxxxxxxxxxxx.1
R2	824-894	3-4		
Y1	1695-2360	5-6	2	Arxxxxxxxxxxxxxxxxxx.2
Y2	1695-2360	7-8	3	Arxxxxxxxxxxxxxxxxxx.3

Left
Bottom

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz 698 – 787 MHz 824 – 894 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	698–787	824–894	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	15.6	15.4	17.5	17.8	18.2	18.4
Beamwidth, Horizontal,	66.7	63	71	66	64	58

SBJAHH-1D65C-DL

degrees

Beamwidth, Vertical, degrees	9.2	7.9	5.7	5.2	4.9	4.5
Beam Tilt, degrees	0-11	0-11	0-7	0-7	0-7	0-7
USLS (First Lobe), dB	13	15	19	19	18	17
Front-to-Back Ratio at 180°, dB	29	32	31	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 at 50°C, maximum, watts	250	250	300	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	698-787	824-894	1695-1880	1850-1990	1920-2200	2300-2360
Gain by all Beam Tilts, average, dBi	15.4	15.2	17.2	17.6	17.9	18.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.3	±0.3	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0° 15.5 5° 15.4 11° 15.1	0° 15.3 5° 15.3 11° 15.0	0° 17.1 4° 17.2 7° 17.1	0° 17.5 4° 17.7 7° 17.6	0° 17.8 4° 18.0 7° 17.9	0° 17.9 4° 18.1 7° 18.2
Beamwidth, Horizontal Tolerance, degrees	±1.6	±2	±3.4	±3.8	±4.7	±4.2
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.5	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	12	12	14	13	13	13
Front-to-Back Total Power at 180° ± 30°, dB	25	22	27	25	25	25
CPR at Boresight, dB	25	28	20	22	19	17
CPR at Sector, dB	14	11	15	12	9	4

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.37 m ² 3.983 ft ²
Effective Projective Area (EPA), lateral	0.31 m ² 3.337 ft ²
Wind Loading @ Velocity, frontal	396.0 N @ 150 km/h (89.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	333.0 N @ 150 km/h (74.9 lbf @ 150 km/h)

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Wind Loading @ Velocity, maximum	762.0 N @ 150 km/h (171.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	401.0 N @ 150 km/h (90.1 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	38.7 kg 85.319 lb

Regulatory Compliance/Certifications

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



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
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