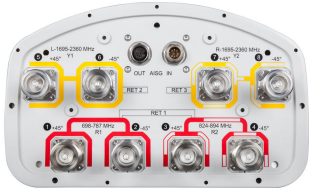


SBJAHH-1D65B-DL



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

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Independent tilt for high bands and single tilt for low bands
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

OBSOLETE

This product was discontinued on: **March 31, 2021**

Replaced By:

JAHH-65B-R3B

8-port sector antenna, 2x 698–787, 2x 824–894 and 4x 1695–2360 MHz, 65° HPBW, 3x RET and low bands have diplexers. Internal SBT's on first LB(Port 1) and first HB(Port 5).

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

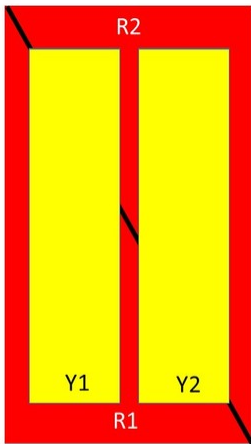
SBJAHH-1D65B-DL

RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
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	180.5 mm 7.106 in
Length	1,850.7 mm 72.862 in
Net Weight, without mounting kit	21.4 kg 47.179 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 (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
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SBJAHH-1D65B-DL

Gain, dBi	14.5	14.3	17.7	18.1	18.7	18.6
Beamwidth, Horizontal, degrees	68	65	70	65.8	62	57
Beamwidth, Vertical, degrees	12.1	10.6	5.6	5.2	4.9	4.5
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	0–7
USLS (First Lobe), dB	13	13	17	16	17	15
Front-to-Back Ratio at 180°, dB	27	28	30	28	30	31
CPR at Boresight, dB	23	21	20	19	19	21
CPR at Sector, dB	14	10	14	11	10	2
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	14.2	13.7	17.3	17.9	18.2	18.4
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.8	±0.4	±0.3	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0° 14.2 7° 14.3 14° 13.8	0° 13.9 7° 13.9 14° 13.2	0° 17.3 3° 17.4 7° 17.2	0° 17.8 3° 17.9 7° 17.9	0° 18.1 3° 18.3 7° 18.2	0° 18.2 3° 18.6 7° 18.5
Beamwidth, Horizontal Tolerance, degrees	±2.1	±2.4	±2.5	±4.4	±4.6	±3.4
Beamwidth, Vertical Tolerance, degrees	±1.7	±0.7	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	21	20	15	15	16	14
Front-to-Back Total Power at 180° ± 30°, dB	24	24	28	27	27	25.6
CPR at Boresight, dB	23	21	20	19	19	21
CPR at Sector, dB	14	10	14	11	10	2

Mechanical Specifications

Effective Projective Area (EPA), frontal

0.27 m² | 2.906 ft²

SBJAHH-1D65B-DL

Effective Projective Area (EPA), lateral	0.22 m ² 2.368 ft ²
Wind Loading @ Velocity, frontal	283.0 N @ 150 km/h (63.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	545.0 N @ 150 km/h (122.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	287.0 N @ 150 km/h (64.5 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	1970 mm 77.559 in
Weight, gross	31.6 kg 69.666 lb

Regulatory Compliance/Certifications

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



Included Products

BSAMNT-2F	–	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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BSAMNT-2F



Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

Product Classification

Product Type Fixed tilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 3.8 kg | 8.378 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 4 kg | 8.818 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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

BSAMNT-2F

