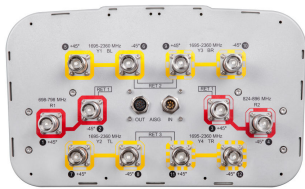


# SBJAH4-1D65B-DL



12-port sector antenna, 2x 698–798, 2x 824–896 and 8x 1695–2360 MHz, 65° HPBW, 3x RET and low bands have diplexers

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Provides support for future Band 14 operations

## General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
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	Aluminum   Low 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

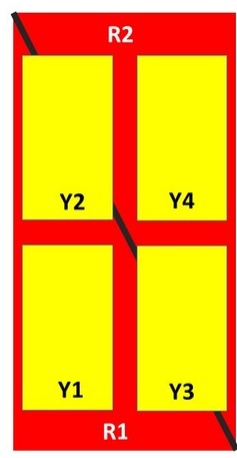
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	1 female   1 male
Input Voltage	10–30 Vdc
Internal RET	High band (2)   Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Multi-RET)

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## Dimensions

Width	350 mm   13.78 in
Depth	208 mm   8.189 in
Length	1828 mm   71.969 in
Net Weight, without mounting kit	26.5 kg   58.422 lb

## Array Layout



Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	698-798	1-2	1	ANxxxxxxxxxxxxxxxxxx.1
R2	824-896	3-4		
Y1	1695-2360	5-6	2	ANxxxxxxxxxxxxxxxxxx.2
Y3	1695-2360	9-10		
Y2	1695-2360	7-8	3	ANxxxxxxxxxxxxxxxxxx.3
Y4	1695-2360	11-12		

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

## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz   698 – 798 MHz   824 – 896 MHz
Polarization	±45°

## Electrical Specifications

Frequency Band, MHz	698–798	824–896	1695–1880	1850–1990	1920–2180	2300–2360
Gain, dBi	15.2	15.5	15.4	16.1	16.2	16.7
Beamwidth, Horizontal, degrees	68	65	63	63	65	65
Beamwidth, Vertical, degrees	11.7	10.3	11.3	10.4	9.8	8.9
Beam Tilt, degrees	2–14	2–14	2–14	2–14	2–14	2–14
USLS (First Lobe), dB	15	16	17	18	18	17
Front-to-Back Ratio at 180°,	29	31	30	33	32	34

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dB

Isolation, Cross Polarization, dB	28	28	28	28	28	28
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	350	350	350	350	350	300

## Electrical Specifications, BASTA

Frequency Band, MHz	698–798	824–896	1695–1880	1850–1990	1920–2180	2300–2360
Gain by all Beam Tilts, average, dBi	14.9	15.3	15.3	15.8	15.9	16.4
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.5	±0.4	±0.4	±0.4
Gain by Beam Tilt, average, dBi	2°   14.9 8°   15.0 14°   14.7	2°   15.2 8°   15.4 14°   15.2	2°   15.3 8°   15.4 14°   15.2	2°   15.8 8°   15.8 14°   15.7	2°   15.8 8°   15.9 14°   15.7	2°   16.4 8°   16.4 14°   16.3
Beamwidth, Horizontal Tolerance, degrees	±1.7	±1.9	±3.4	±3	±4.0	±3.3
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.7	±0.7	±0.6	±0.3
USLS, beampeak to 20° above beampeak, dB	15	16	17	18	18	17
Front-to-Back Total Power at 180° ± 30°, dB	24	23	25	27	25	27
CPR at Boresight, dB	18	20	18	20	21	23
CPR at Sector, dB	10	12	9	13	12	9

## Mechanical Specifications

Effective Projective Area (EPA), frontal	0.28 m²   3.014 ft²
Effective Projective Area (EPA), lateral	0.24 m²   2.583 ft²
Wind Loading @ Velocity, frontal	301.0 N @ 150 km/h (67.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	638.0 N @ 150 km/h (143.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h   149.75 mph

## Packaging and Weights

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Width, packed	450 mm   17.717 in
Depth, packed	355 mm   13.976 in
Length, packed	1975 mm   77.756 in
Weight, gross	40.1 kg   88.405 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.
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## \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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