

# SBJAH4-1D65C-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
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

## 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	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, mid band	0
RF Connector Quantity, low band	4
RF Connector Quantity, total	12

## Remote Electrical Tilt (RET) Information

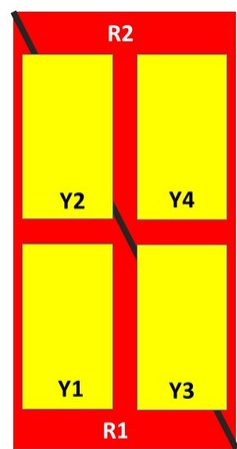
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	1 female   1 male
Input Voltage	10–30 Vdc
Internal RET	High band (2)   Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Multi-RET)

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## Dimensions

Width	350 mm   13.78 in
Depth	208 mm   8.189 in
Length	2438 mm   95.984 in
Net Weight, without mounting kit	31.4 kg   69.225 lb

## Array Layout

 Left Right Bottom	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	15.9	16.4	16.9	17.2	17.6	17.6
Beamwidth, Horizontal, degrees	67	64	63	63	64	65
Beamwidth, Vertical, degrees	9.7	8.6	8.2	7.5	7	6.2
Beam Tilt, degrees	2–11	2–11	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	18	17	18	17	14

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Front-to-Back Ratio at 180°, dB	32	34	31	36	36	36
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

## Mechanical Specifications

Effective Projective Area (EPA), frontal	0.4 m²   4.306 ft²
Effective Projective Area (EPA), lateral	0.34 m²   3.66 ft²
Wind Loading @ Velocity, frontal	425.0 N @ 150 km/h (95.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	361.0 N @ 150 km/h (81.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	451.0 N @ 150 km/h (101.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	450 mm   17.717 in
Depth, packed	355 mm   13.976 in
Length, packed	2585 mm   101.772 in
Weight, gross	43.8 kg   96.562 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
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

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

## \* Footnotes

**Performance Note**      Severe environmental conditions may degrade optimum performance