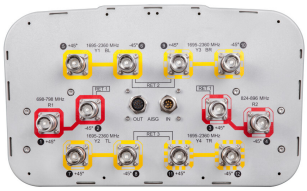
SBJAH4-1D65B-DL



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
- 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, 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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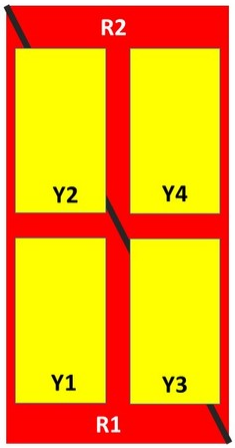
SBJAH4-1D65B-DL

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



Left Right
Bottom

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

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 (150 mph)

Packaging and Weights

Width, packed	450 mm | 17.717 in
Depth, packed	355 mm | 13.976 in
Length, packed	1975 mm | 77.756 in
Weight, gross	37.7 kg | 83.114 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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

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