

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

• Interleaved dipole technology providing for attractive, low wind load mechanical package

OBSOLETE

This product was discontinued on: March 31, 2022Replaced By:6-port sector antenna, 2xNHH-65C-R2B6-port sector antenna, 2x

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

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	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

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 (1) Low band (1)

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Power Consumption, idle state, maximum	2 W		
Power Consumption, normal conditions, maximum	13 W		
Protocol	3GPP/AISG 2.0 (Single RET)		
Dimensions			
Width	301 mm 11.85 in		
Depth	180 mm 7.087 in		
Length	2453 mm 96.575 in		
Net Weight, without mounting kit	22.5 kg 49.604 lb		

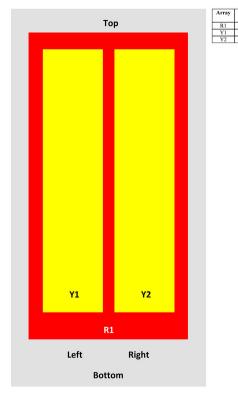
RET (SRET)

Conns

Freq (MHz) AISG RET UID

Array Layout





View from the front of the antenna

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

Electrical Specifications

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

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	16.2	16	17.7	17.9	18.5	18.5
Beamwidth, Horizontal, degrees	66.2	63.8	70	64.5	63	58
Beamwidth, Vertical, degrees	8.9	7.8	5.7	5.2	5	4.4
Beam Tilt, degrees	0-11	0-11	0-7	0-7	0-7	0-7
USLS (First Lobe), dB	11	12	15	15	15	14
Front-to-Back Ratio at 180°, dB	29	31	27	27	28	27
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, maximum, watts	400	400	350	350	350	300

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain by all Beam Tilts, average, dBi	15.8	15.6	17.3	17.8	18.2	18.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5	±0.3	±0.2	±0.5	±0.4
Gain by Beam Tilt, average, dBi	0 ° 16.0 5 ° 16.0 11 ° 15.5	0 ° 15.8 5 ° 15.8 11 ° 15.2	0 ° 17.3 4 ° 17.4 7 ° 17.3	0 ° 17.7 4 ° 17.8 7 ° 17.7	0 ° 18.0 4 ° 18.2 7 ° 18.1	0 ° 17.9 4 ° 18.2 7 ° 18.2
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.9	±3.4	±3.8	±4.7	±3.7
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	13	14	17	16	17	15
Front-to-Back Total Power at 180° ± 30°, dB	25.6	23.8	27	24.6	25	26

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CPR at Boresight, dB	29	22	20	21	19	21		
CPR at Sector, dB	14	11	13	11	9	5		
Mechanical Spe	cifications							
Effective Projective Area (EPA), frontal0.37 m² 3.983 ft²								
Effective Projective Area	ve Projective Area (EPA), lateral 0.31 m ² 3.337 ft ²							
Wind Loading @ Velocity	r, 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)						
Wind Loading @ Velocity	, maximum		762.0 N @ 150) km/h (171.3 lbf	@ 150 km/h)			
Wind Loading @ Velocity	r, rear		401.0 N @ 150) km/h (90.1 lbf (@ 150 km/h)			
Wind Speed, maximum			241 km/h (150) mph)				
Packaging and $lackspace$	Neights							
Width, packed			390 mm 1	5.354 in				
Depth, packed	296 mm 11.654 in							
Length, packed	2628 mm 103.465 in							
Weight, gross	35.2 kg 77.603 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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