

DHHTT65B-3XR



10-port sector antenna, 2x 790–960, 4x 1710–2180 and 4x 2490–2690 MHz, 65° HPBW, 3x RET with individual tilt available for the 850 MHz band, 1900 MHz bands and 2500 MHz bands.

OBSOLETE

This product was discontinued on: **March 31, 2022**

Replaced By:

RV4-65B-R5-V2

10-port sector antenna, 2x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 5x RET

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	ASA, UV stabilized
Radiator Material	Copper Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.1-9.5 DIN Female 7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male

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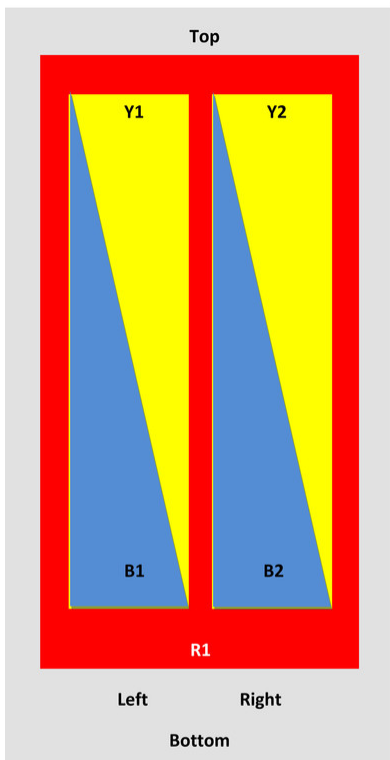
Input Voltage	10–30 Vdc
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Multi-RET)

Dimensions

Width	301 mm 11.85 in
Depth	181 mm 7.126 in
Length	1832 mm 72.126 in
Net Weight, without mounting kit	20.6 kg 45.415 lb

Array Layout

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Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	790-960	1-2	1	AXXXXXXXXXXXXXXXXX.1
B1	1710-2180	3-4	2	AXXXXXXXXXXXXXXXXX.2
B2	1710-2180	5-6	3	AXXXXXXXXXXXXXXXXX.3
Y1	2490-2690	7-8	4	AXXXXXXXXXXXXXXXXX.4
Y2	2490-2690	9-10	5	AXXXXXXXXXXXXXXXXX.5

View from the front of the antenna
(Sizes of colored boxes are not true depictions of array sizes)

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2180 MHz 2490 – 2690 MHz 790 – 960 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180	2490–2690
Connector Interface	7-16 DIN Female	7-16 DIN Female	7-16 DIN Female	7-16 DIN Female	7-16 DIN Female	4.1-9.5 DIN Female
Connector Location	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom
Gain, dBi	15.5	15.5	17.3	17.4	17.5	17.2
Beamwidth, Horizontal, degrees	64	63	71	69	66	60
Beamwidth, Vertical, degrees	11.2	10.3	5.6	5.4	5.1	4.3
Beam Tilt, degrees	0–10	0–10	0–8	0–8	0–8	0–8
USLS (First Lobe), dB	15	16	15	16	15	18
Front-to-Back Ratio at 180°, dB	28	31	31	29	25	26
CPR at Boresight, dB	20	19	20	20	18	16
CPR at Sector, dB	9	9	9	9	7	4
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	-150
Input Power per Port, maximum, watts	350	350	300	300	300	250

Electrical Specifications, BASTA

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180	2490–2690
Gain by all Beam Tilts, average, dBi	15	15.1	17	17.1	17.1	17.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.3	±0.3	±0.3	±0.6
Gain by Beam Tilt, average, dBi	0° 15.0 5° 15.1 10° 15.0	0° 15.0 5° 15.1 10° 15.0	0° 16.8 4° 17.0 8° 17.0	0° 17.0 4° 17.1 8° 17.1	0° 17.0 4° 17.1 8° 17.1	0° 17.1 4° 17.2 8° 17.0
Beamwidth, Horizontal	±2.5	±1.8	±3.2	±2.7	±5	±6.6

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Tolerance, degrees

Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.2	±0.2	±0.4	±0.3
USLS, beampeak to 20° above beampeak, dB	16	17	16	17	16	19
Front-to-Back Total Power at 180° ± 30°, dB	24	26	26	25	23	23
CPR at Boresight, dB	21	20	22	22	21	16
CPR at Sector, dB	9	10	13	10	8	5

Mechanical Specifications

Wind Loading @ Velocity, frontal	279.0 N @ 150 km/h (62.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	231.0 N @ 150 km/h (51.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	538.0 N @ 150 km/h (120.9 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	283.0 N @ 150 km/h (63.6 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	1954 mm 76.929 in
Weight, gross	33.2 kg 73.193 lb

Regulatory Compliance/Certifications

Agency	Classification
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



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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