

# DBXDH-6565B-VTM | DBXDH-6565B-A2M



4-port sector antenna, 2x 790–960 and 2x 1710–2180 MHz, 65° HPBW, RET compatible

This product will be discontinued on: March 30, 2024

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Aluminum   Low loss circuit board
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	2
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	4

## Remote Electrical Tilt (RET) Information

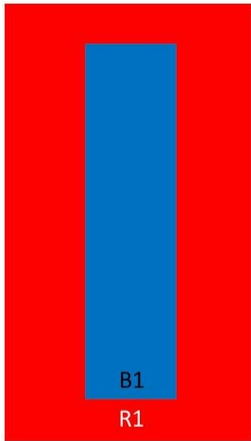
<b>Model with Factory Installed AISG 2.0 Actuator</b>	DBXDH-6565B-A2M
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## Dimensions

<b>Width</b>	301 mm   11.85 in
<b>Depth</b>	181 mm   7.126 in
<b>Length</b>	1998 mm   78.661 in
<b>Net Weight, without mounting kit</b>	22.8 kg   50.265 lb

## Array Layout

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Array	Freq (MHz)	Conns
R1	790-960	1-2
B1	1710-2180	3-4

Bottom

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

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2180 MHz   790 – 960 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
<b>Gain, dBi</b>	15.8	16.7	18.7	18.6	18.3
<b>Beamwidth, Horizontal, degrees</b>	68	65	63	62	62
<b>Beamwidth, Vertical, degrees</b>	10	9.3	5.2	5	4.8
<b>Beam Tilt, degrees</b>	2–12	2–12	1–8	1–8	1–8
<b>USLS (First Lobe), dB</b>	15	15	15	15	15
<b>Front-to-Back Ratio at 180°, dB</b>	28	29	33	32	31
<b>Isolation, Cross Polarization, dB</b>	30	30	30	30	30
<b>Isolation, Inter-band, dB</b>	37	35	40	40	40
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	500	500	400	400	400

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## Electrical Specifications, BASTA

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	15.9	16.3	18.1	18	17.9
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.3	±0.3	±0.3	±0.4
Gain by Beam Tilt, average, dBi	2°   16.0 7°   15.9 12°   15.6	2°   16.3 7°   16.4 12°   15.9	1°   18.1 4°   18.2 8°   18.0	1°   18.0 4°   18.0 8°   17.8	1°   17.9 4°   18.0 8°   17.8
Beamwidth, Horizontal Tolerance, degrees	±2.3	±2.5	±2.4	±2.6	±3.4
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.2	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	17	18	16	16	15
Front-to-Back Total Power at 180° ± 30°, dB	24	23	29	28	26
CPR at Boresight, dB	26	24	18	16	14
CPR at Sector, dB	15	10	10	11	12

## Mechanical Specifications

Wind Loading @ Velocity, frontal	681.0 N @ 150 km/h (153.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	216.0 N @ 150 km/h (48.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	800.0 N @ 150 km/h (179.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	411 mm   16.181 in
Depth, packed	284 mm   11.181 in
Length, packed	2314 mm   91.102 in
Weight, gross	35 kg   77.162 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>

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ROHS Compliant/Exempted

UK-ROHS Compliant/Exempted



## 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