

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 31, 2021

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
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
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	2
RF Connector Quantity, low band	2
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information, General

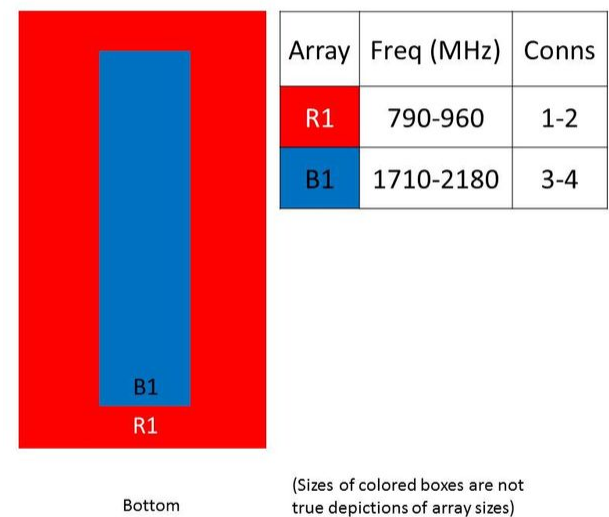
Model with Factory Installed AISG 2.0 Actuator	DBXDH-6565B-A2M
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Dimensions

Width	301 mm 11.85 in
Length	1998 mm 78.661 in
Depth	181 mm 7.126 in

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Array Layout



Electrical Specifications

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

Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	15.8	16.7	18.7	18.6	18.3
Beamwidth, Horizontal, degrees	68	65	63	62	62
Beamwidth, Vertical, degrees	10	9.3	5.2	5	4.8

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Beam Tilt, degrees	2–12	2–12	1–8	1–8	1–8
USLS (First Lobe), dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	28	29	33	32	31
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	37	35	40	40	40
VSWR Return loss, dB	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	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	500	500	400	400	400

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 at Velocity, frontal	153.1 lbf @ 150 km/h 681.0 N @ 150 km/h
Wind Loading at Velocity, lateral	216.0 N @ 150 km/h 48.6 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 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

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Net Weight, without mounting kit	22.8 kg 50.265 lb
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 www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted



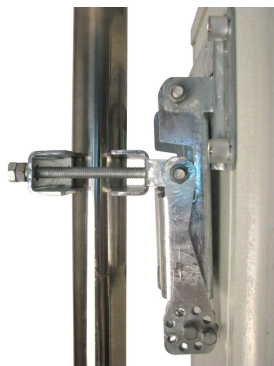
Included Products

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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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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.

General Specifications

Application	Outdoor
Color	Silver

Dimensions

Compatible Diameter, maximum	114.3 mm 4.5 in
Compatible Diameter, minimum	61 mm 2.402 in

Material Specifications

Material Type	Galvanized steel
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Packaging and Weights

Included	Brackets Hardware
Packaging quantity	1

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value
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
ROHS	Compliant

