

DBXNH-6565B-VTM | DBXNH-6565B-A2M



4-port sector antenna, 2x 698–896 and 2x 1710–2180 MHz, 65° HPBW, RET compatible

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

OBSOLETE

This product was discontinued on: November 30, 2023

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
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

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

Width	301 mm 11.85 in
Depth	181 mm 7.126 in
Length	1847 mm 72.717 in
Net Weight, without mounting kit	21 kg 46.297 lb

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2180 MHz 698 – 896 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain, dBi	15.2	16	19.2	19.1	18.2
Beamwidth, Horizontal, degrees	71	66.5	58	57.3	62.5
Beamwidth, Vertical, degrees	12.4	10.9	5.5	5.1	4.8
Beam Tilt, degrees	0–10	0–10	0–6	0–6	0–6
USLS (First Lobe), dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	25	25	32	34	32
CPR at Boresight, dB	24	20	25	22	20
CPR at Sector, dB	10	8	10	10	8
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	400	400	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	14.8	15.6	18.5	18.4	18
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.3	±0.2	±0.8
Gain by Beam Tilt, average, dBi	0° 15.0 5° 14.9 10° 14.5	0° 15.5 5° 15.6 10° 15.4	0° 18.6 3° 18.5 6° 18.2	0° 18.5 3° 18.4 6° 18.2	0° 18.3 3° 18.1 6° 17.6
Beamwidth, Horizontal Tolerance, degrees	±2.4	±2.3	±1.7	±1.5	±8.3
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.8	±0.3	±0.2	±0.4

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USLS, beampeak to 20° above beampeak, dB	16	15	17	18	16
Front-to-Back Total Power at 180° ± 30°, dB	21	21	28	28	26
CPR at Boresight, dB	24	21	26	24	21
CPR at Sector, dB	11	8	10	10	8

Mechanical Specifications

Wind Loading @ Velocity, frontal	618.0 N @ 150 km/h (138.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	197.0 N @ 150 km/h (44.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	727.0 N @ 150 km/h (163.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	409 mm 16.102 in
Depth, packed	292 mm 11.496 in
Length, packed	2163 mm 85.158 in
Weight, gross	33.5 kg 73.855 lb

Regulatory Compliance/Certifications

Agency	Classification
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
UK-ROHS	Compliant



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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