

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, mid band	0
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

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Net Weight, without mounting kit 21 kg | 46.297 lb

Electrical Specifications

Impedance 50 ohm
Operating Frequency Band 1710 – 2180 MHz | 698 – 896 MHz
Polarization $\pm 45^\circ$

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

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

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Length, packed 2163 mm | 85.158 in

Weight, gross 33.5 kg | 73.855 lb

Regulatory Compliance/Certifications

Agency

CHINA-ROHS

ISO 9001:2015

REACH-SVHC

ROHS

UK-ROHS

Classification

Below maximum concentration value

Designed, manufactured and/or distributed under this quality management system

Compliant as per SVHC revision on www.andrew.com/ProductCompliance

Compliant

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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance