

# DBXNH-6565A-VTM



Multiband Antenna, 698–896 and 1710–2180 MHz, 65° horizontal beamwidth, 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: December 31, 2016

### Replaced By

RV65A-M	4-port sector antenna, 2x 694–960 and 2x 1695–2690 MHz, 65° HPBW, RET compatible
RV65A-1X2	4-port sector antenna, 2x 694–960 and 2x 1695–2690 MHz, 65° HPBW, one factory attached AccuRET on high band. Wind load, rear: 208 N @ 150km/h
RV65A-2X2	4-port sector antenna, 2x 694–960 and 2x 1695–2690 MHz, 65° HPBW, RET compatible

## Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain, dBi	13.8	14.1	17.0	17.2	17.3
Beamwidth, Horizontal, degrees	69	66	62	57	59
Beamwidth, Vertical, degrees	18.8	16.9	7.4	7.0	6.6
Beam Tilt, degrees	0–15	0–15	0–8	0–8	0–8
USLS (First Lobe), dB	17	15	16	17	18
Front-to-Back Ratio at 180°, dB	25	29	31	35	35
Isolation, Cross Polarization, dB	30	28	30	30	30
Isolation, Inter-band, dB	35	33	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	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	400	400	300	300	300
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

## Electrical Specifications, BASTA\*

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	13.3	13.9	16.8	17.0	17.0
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.4	±0.5	±0.3	±0.7
Gain by Beam Tilt, average, dBi	0 °   13.5 8 °   13.4 15 °   12.9	0 °   14.1 8 °   14.0 15 °   13.4	0 °   16.7 4 °   16.8 8 °   16.7	0 °   17.1 4 °   17.1 8 °   16.8	0 °   17.3 4 °   17.1 8 °   16.5
Beamwidth, Horizontal Tolerance, degrees	±2.9	±1.7	±5.7	±2.1	±6.4
Beamwidth, Vertical Tolerance, degrees	±1.5	±0.8	±0.4	±0.3	±0.4

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USLS, beampeak to 20° above beampeak, dB	14	17	16	17	16
Front-to-Back Total Power at 180° ± 30°, dB	18	21	28	28	28
CPR at Boresight, dB	15	14	21	22	25
CPR at Sector, dB	8	5	11	9	7

\* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

## General Specifications

<b>Operating Frequency Band</b>	1710 – 2180 MHz   698 – 896 MHz
<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Performance Note</b>	Outdoor usage

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, high band</b>	2
<b>RF Connector Interface</b>	7-16 DIN Female
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Radiator Material</b>	Aluminum
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Reflector Material</b>	Aluminum
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	403.0 N @ 150 km/h 90.6 lbf @ 150 km/h
<b>Wind Loading, lateral</b>	130.0 N @ 150 km/h 29.2 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	241 km/h   150 mph

## Dimensions

<b>Length</b>	1293.0 mm   50.9 in
<b>Width</b>	301.0 mm   11.9 in
<b>Depth</b>	181.0 mm   7.1 in
<b>Net Weight, without mounting kit</b>	15.5 kg   34.2 lb

## Remote Electrical Tilt (RET) Information

**Model with Factory Installed AISG 2.0 Actuator** DBXNH-6565A-A2M

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## Packed Dimensions

<b>Length</b>	1609.0 mm   63.3 in
<b>Width</b>	409.0 mm   16.1 in
<b>Depth</b>	294.0 mm   11.6 in
<b>Shipping Weight</b>	27.2 kg   60.0 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



## 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

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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