

# TBXLHB-6565A-VTM



Multiband Antenna, 824–960 and 2 x 1710–2180 MHz, 65° horizontal beamwidth, RET compatible

- Three DualPol® antennas under one radome
- Interleaved dipole technology providing for attractive, low wind load mechanical package

## OBSOLETE

This product was discontinued on: December 31, 2016

### Replaced By

RVV65A-M	6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, RET compatible
RVV65A-3X2	
TBXLHB-6565A-A3M	6-port sector antenna, 2x 824–960 and 4x 1710–2180 MHz, 65° HPBW, 3x RET

## Electrical Specifications

Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	14.6	14.7	16.8	17.1	17.2
Beamwidth, Horizontal, degrees	72	68	68	65	63
Beamwidth, Vertical, degrees	15.1	14.5	7.4	7.0	6.6
Beam Tilt, degrees	0–15	0–15	0–8	0–8	0–8
USLS (First Lobe), dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	26	26	32	36	36
CPR at Boresight, dB	20	16	12	15	15
CPR at Sector, dB	12	10	7	7	6
Isolation, Cross Polarization, dB	25	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	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350	350	350
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

## Electrical Specifications, BASTA\*

Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	14.4	14.2	16.7	16.9	17.0
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.6	±0.8	±0.8	±1
Gain by Beam Tilt, average, dBi	0 °   14.7 7 °   14.4 15 °   13.9	0 °   14.6 7 °   14.3 15 °   13.7	0 °   16.7 4 °   16.8 8 °   16.6	0 °   16.9 4 °   16.9 8 °   16.6	0 °   17.1 4 °   17.1 8 °   16.7
Beamwidth, Horizontal Tolerance, degrees	±5.6	±5.4	±3.3	±3.2	±4

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Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.4	±0.3	±0.5
USLS, beampeak to 20° above beampeak, dB	15	16	18	19	16
Front-to-Back Total Power at 180° ± 30°, dB	22	23	29	30	30
CPR at Boresight, dB	21	18	20	19	18
CPR at Sector, dB	12	9	8	7	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

**Operating Frequency Band** 1710 – 2180 MHz | 824 – 960 MHz

**Antenna Type** Sector

**Band** Multiband

**Performance Note** Outdoor usage

## Mechanical Specifications

**RF Connector Quantity, total** 6

**RF Connector Quantity, low band** 2

**RF Connector Quantity, high band** 4

**RF Connector Interface** 7-16 DIN Female

**Color** Light gray

**Grounding Type** RF connector inner conductor and body grounded to reflector and mounting bracket

**Radiator Material** Aluminum

**Radome Material** Fiberglass, UV resistant

**RF Connector Location** Bottom

**Wind Loading, frontal** 724.0 N @ 150 km/h  
162.8 lbf @ 150 km/h

**Wind Loading, lateral** 208.0 N @ 150 km/h  
46.8 lbf @ 150 km/h

**Wind Speed, maximum** 241 km/h | 150 mph

## Dimensions

**Length** 1323.0 mm | 52.1 in

**Width** 466.0 mm | 18.3 in

**Depth** 158.0 mm | 6.2 in

**Net Weight, without mounting kit** 18.6 kg | 41.0 lb

## Packed Dimensions

**Length** 1612.0 mm | 63.5 in

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Width	572.0 mm   22.5 in
Depth	264.0 mm   10.4 in
Shipping Weight	30.5 kg   67.2 lb

## Regulatory Compliance/Certifications

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



## Included Products

- DB380 — Pipe Mounting Kit for 2.4"-4.5" (60-115mm) OD round members on wide panel antennas. Includes 2 clamp sets and double nuts.
- DB5083 — Downtilt Mounting Kit for 2.4"-4.5" (60 - 115 mm) OD round members. Includes a heavy-duty, galvanized steel downtilt mounting bracket assembly and associated hardware. This kit is compatible with the DB380 pipe mount kit for panel antennas that are equipped with two mounting brackets.

## \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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