

# TBXLHA-6565B-VTM



6-port sector antenna, 2x 824–960 and 4x 1710–2180 MHz, 65° HPBW, 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: **March 31, 2021**

### Replaced By:

RVV65B-C3-3XR

6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	PVC, UV resistant
<b>Radiator Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	6

## Dimensions

<b>Width</b>	269 mm   10.591 in
<b>Depth</b>	132 mm   5.197 in
<b>Length</b>	2253 mm   88.701 in
<b>Net Weight, without mounting kit</b>	21.7 kg   47.84 lb

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2180 MHz   824 – 960 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>824–896</b>	<b>870–960</b>	<b>1710–1880</b>	<b>1850–1990</b>	<b>1920–2180</b>
<b>Gain, dBi</b>	15.9	16.5	15.6	15.6	15.6
<b>Beamwidth, Horizontal, degrees</b>	69.8	66.8	61	61.9	61
<b>Beamwidth, Vertical, degrees</b>	9.6	9.2	9.5	9.1	8.7
<b>Beam Tilt, degrees</b>	0–11	0–11	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	15	15	15	15	15
<b>Front-to-Back Ratio at 180°, dB</b>	25	25	28	30	28
<b>CPR at Boresight, dB</b>	21	21	12	12	11
<b>CPR at Sector, dB</b>	13	10	5	5	5
<b>Isolation, Cross Polarization, dB</b>	30	30	30	30	30
<b>Isolation, Inter-band, dB</b>	30	30	30	30	30
<b>VSWR   Return loss, dB</b>	1.4 15.6	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	350	350	350	350	350

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>824–896</b>	<b>870–960</b>	<b>1710–1880</b>	<b>1850–1990</b>	<b>1920–2180</b>
<b>Gain by all Beam Tilts, average, dBi</b>	15.5	15.9	15.2	15.2	15
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.4	±0.4	±0.5	±0.7
<b>Gain by Beam Tilt, average, dBi</b>	0° 15.7 6° 15.6 11° 15.2	0° 16.0 6° 15.9 11° 15.6	0° 15.3 5° 15.4 10° 15.0	0° 15.3 5° 15.3 10° 14.8	0° 15.1 5° 15.3 10° 14.4
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±2.7	±3.3	±5.3	±3.9	±4.3
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.6	±0.5	±0.6	±0.5	±0.7

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<b>USLS, beampeak to 20° above beampeak, dB</b>	17	16	15	14	14
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	21	21	25	27	25
<b>CPR at Boresight, dB</b>	22	22	14	14	13
<b>CPR at Sector, dB</b>	14	11	5	6	6

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	793.0 N @ 150 km/h (178.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	171.0 N @ 150 km/h (38.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	863.0 N @ 150 km/h (194.0 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	201 km/h (125 mph)

## Packaging and Weights

<b>Width, packed</b>	376 mm   14.803 in
<b>Depth, packed</b>	267 mm   10.512 in
<b>Length, packed</b>	2566 mm   101.024 in
<b>Weight, gross</b>	32.2 kg   70.989 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

600899A-2	-	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

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