



## TBXLHA-6565C-VTM | TBXLHA-6565C-A3M

**Multiband Antenna, 824–960 and 2x 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
- Each antenna is independently capable of field adjustable electrical tilt

### Electrical Specifications

Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	16.9	17.6	16.8	17.1	17.0
Beamwidth, Horizontal, degrees	70	67	65	62	59
Beamwidth, Vertical, degrees	7.4	7.1	7.2	6.9	6.7
Beam Tilt, degrees	0–8	0–8	2–10	2–10	2–10
USLS (First Lobe), dB	17	17	18	16	15
Front-to-Back Ratio at 180°, dB	25	25	28	26	25
CPR at Boresight, dB	23	24	14	14	14
CPR at Sector, dB	11	9	5	5	5
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, 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	-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	16.7	17.0	16.3	16.3	16.1
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.2	±0.3	±0.5	±0.7
	0 °   16.7	0 °   17.1	2 °   16.3	2 °   16.5	2 °   16.5
Gain by Beam Tilt, average, dBi	4 °   16.7	4 °   17.1	6 °   16.3	6 °   16.3	6 °   16.2
	8 °   16.4	8 °   16.8	10 °   16.1	10 °   15.9	10 °   15.6
Beamwidth, Horizontal Tolerance, degrees	±2.7	±2.7	±4.4	±3.9	±5.4
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.3	±0.3	±0.4
USLS, beampeak to 20° above beampeak, dB	17	18	19	17	15
Front-to-Back Total Power at 180° ± 30°, dB	22	23	23	24	25
CPR at Boresight, dB	24	23	15	16	17
CPR at Sector, dB	12	10	7	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

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## 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	PVC, UV resistant
RF Connector Location	Bottom
Wind Loading, maximum	922.0 N @ 150 km/h 207.3 lbf @ 150 km/h
Wind Speed, maximum	201 km/h   125 mph

## Dimensions

Length	2577.0 mm   101.5 in
Width	269.0 mm   10.6 in
Depth	132.0 mm   5.2 in
Net Weight	25.4 kg   56.0 lb

## Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator TBXLHA-6565C-A3M

## Packed Dimensions

Length	2890.0 mm   113.8 in
Width	376.0 mm   14.8 in
Depth	267.0 mm   10.5 in
Shipping Weight	36.7 kg   80.9 lb

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



## 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

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Performance Note	Severe environmental conditions may degrade optimum performance
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