

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



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
- Each antenna is independently capable of field adjustable electrical tilt

OBSOLETE

This product was discontinued on: March 1, 2021

Replaced By:

RVV-65D-R3

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

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 |
| Radome Material | PVC, UV resistant |
| Radiator Material | Aluminum |
| RF Connector Interface | 7-16 DIN Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 4 |
| RF Connector Quantity, low band | 2 |
| RF Connector Quantity, total | 6 |

Remote Electrical Tilt (RET) Information

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

Dimensions

| | |
|--------------|--------------------|
| Width | 269 mm 10.591 in |
| Depth | 132 mm 5.197 in |

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Length 2577 mm | 101.457 in

Net Weight, without mounting kit 25.4 kg | 55.997 lb

Electrical Specifications

Impedance 50 ohm

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

Polarization $\pm 45^\circ$

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 |
| Beamwidth, Horizontal, degrees | 70 | 67 | 65.4 | 61.8 | 58.6 |
| 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, 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 | -150 | -150 | -150 | -150 | -150 |
| Input Power per Port, maximum, watts | 350 | 350 | 350 | 350 | 350 |

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 | 16.3 | 16.3 | 16.1 |
| Gain by all Beam Tilts Tolerance, dB | ± 0.6 | ± 0.2 | ± 0.3 | ± 0.5 | ± 0.7 |
| Gain by Beam Tilt, average, dBi | 0° 16.7 4° 16.7 8° 16.4 | 0° 17.1 4° 17.1 8° 16.8 | 2° 16.3 6° 16.3 10° 16.1 | 2° 16.5 6° 16.3 10° 15.9 | 2° 16.5 6° 16.2 10° 15.6 |
| Beamwidth, Horizontal Tolerance, degrees | ± 2.7 | ± 2.7 | ± 4.4 | ± 3.9 | ± 5.4 |

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| | | | | | |
|--|------|------|------|------|------|
| 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 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 922.0 N @ 150 km/h (207.3 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 202.0 N @ 150 km/h (45.4 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 1,003.0 N @ 150 km/h (225.5 lbf @ 150 km/h) |
| Wind Speed, maximum | 201 km/h (125 mph) |

Packaging and Weights

| | |
|-----------------------|---------------------|
| Width, packed | 376 mm 14.803 in |
| Depth, packed | 267 mm 10.512 in |
| Length, packed | 2890 mm 113.78 in |
| Weight, gross | 36.7 kg 80.91 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CE | Compliant with the relevant CE product directives |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant/Exempted |
| UK-ROHS | Compliant/Exempted |



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.

* Footnotes

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Performance Note

Severe environmental conditions may degrade optimum performance

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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 3.9 kg | 8.598 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 4.2 kg | 9.259 lb

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| 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 www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

600899A-2

