

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
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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.
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* Footnotes

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Performance Note

Severe environmental conditions may degrade optimum performance