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

This product will be discontinued on: March 31, 2021

Replaced By:

RVV-65A-R3	6-port sector antenna, 2x 694–960 and 4x 1695–2 690 MHz, 65° HPBW, 3x RET

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
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

Dimensions

Width	269 mm | 10.591 in
Length	2253 mm | 88.701 in
Depth	132 mm | 5.197 in

Electrical Specifications

Impedance	50 ohm

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Operating Frequency Band	1710 – 2180 MHz | 824 – 960 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	**824–896**	**870–960**	**1710–1880**	**1850–1990**	**1920–2180**
Gain, dBi	15.9	16.5	15.6	15.6	15.6
Beamwidth, Horizontal, degrees	69.8	66.8	61	61.9	61
Beamwidth, Vertical, degrees	9.6	9.2	9.5	9.1	8.7
Beam Tilt, degrees	0–11	0–11	0–10	0–10	0–10
USLS (First Lobe), dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	25	25	28	30	28
CPR at Boresight, dB	21	21	12	12	11
CPR at Sector, dB	13	10	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	1.4 | 15.6	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	15.5	15.9	15.2	15.2	15
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.4	±0.5	±0.7
Gain by Beam Tilt, average, dBi	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
Beamwidth, Horizontal Tolerance, degrees	±2.7	±3.3	±5.3	±3.9	±4.3
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.6	±0.5	±0.7
USLS, beampeak to 20° above beampeak, dB	17	16	15	14	14
Front-to-Back Total Power at 180° ± 30°, dB	21	21	25	27	25
CPR at Boresight, dB	22	22	14	14	13

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CPR at Sector, dB	14	11	5	6	6

Mechanical Specifications

Wind Loading at Velocity, frontal	179.8 lbf @ 150 km/h | 793.0 N @ 150 km/h
Wind Loading at Velocity, lateral	171.0 N @ 150 km/h | 38.4 lbf @ 150 km/h
Wind Speed, maximum	201 km/h | 124.896 mph

Packaging and Weights

Width, packed	376 mm | 14.803 in
Depth, packed	267 mm | 10.512 in
Length, packed	2566 mm | 101.024 in
Net Weight, without mounting kit	21.7 kg | 47.84 lb
Weight, gross	32.2 kg | 70.989 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

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

Performance Note	Severe environmental conditions may degrade optimum performance