TBXLHA-6565C-A3M

6-port sector antenna, 2x 824–960 and 4x 1710–2180 MHz, 65° HPBW, 3x RETs

- 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: November 30, 2023

Replaced By:

RVV-65D-R3VB	6-port sector antenna, 2x 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

TBXLHA-6565C-A3M

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	±45°

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	37.3 kg | 82.232 lb

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