DBXLH-6565B-VTM | DBXLH-6565B-A2M

4-port sector antenna, 2x 824–960 and 2x 1710–2180 MHz, 65° HPBW, RET compatible

- Interleaved dipole technology providing for attractive, low wind load mechanical package

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	2
RF Connector Quantity, low band	2
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information, General

Model with Factory Installed AISG 2.0 Actuator	DBXLH-6565B-A2M

Dimensions

Width	269 mm | 10.591 in
Length	1937 mm | 76.26 in
Depth	132 mm | 5.197 in

Array Layout

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Array	Freq (MHz)	Conns
R1	824-960	1-2
B1	1710-2180	3-4

Bottom

(Sizes of colored boxes are not true depictions of array sizes)
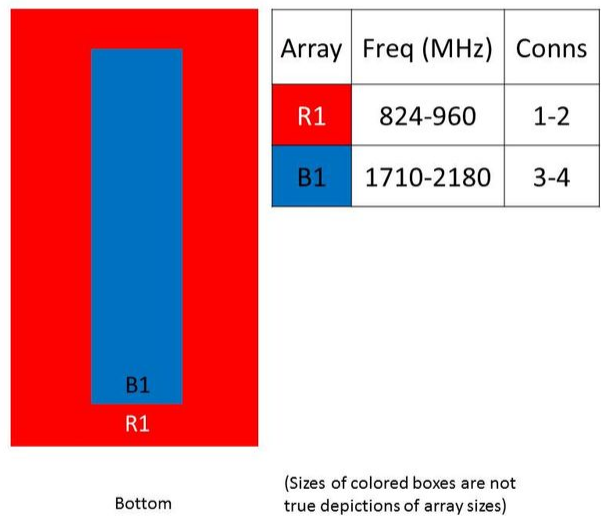
Port Configuration

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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	15	16.2	18	18.2	18.3
Beamwidth, Horizontal, degrees	70.8	67.7	69.3	64	58
Beamwidth, Vertical, degrees	11	10.6	4.9	4.6	4.4
Beam Tilt, degrees	0–10	0–10	0–6	0–6	0–6

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USLS (First Lobe), dB	16	15	15	15	15
Front-to-Back Ratio at 180°, dB	30	30	32	32	32
CPR at Boresight, dB	22.6	21.4	20.8	18.1	15.9
CPR at Sector, dB	14.5	11.2	11.6	9	7.3
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	1.4 | 15.6	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	15.3	15.7	18	17.8	18.1
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.3	±0.3	±0.6
Gain by Beam Tilt, average, dBi	0 ° | 15.3 5 ° | 15.3 10 ° | 15.2	0 ° | 15.7 5 ° | 15.8 10 ° | 15.7	0 ° | 17.9 3 ° | 18.0 6 ° | 17.9	0 ° | 17.7 3 ° | 17.9 6 ° | 17.7	0 ° | 18.1 3 ° | 18.2 6 ° | 17.8
Beamwidth, Horizontal Tolerance, degrees	±2.1	±3.4	±3.6	±5.4	±7.4
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6	±0.3	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	16	17	14	13	14
Front-to-Back Total Power at 180° ± 30°, dB	20	20	26.7	25	24.6

Mechanical Specifications

Wind Loading at Velocity, frontal	14.8 lbf @ 150 km/h | 659.0 N @ 150 km/h
Wind Loading at Velocity, lateral	143.0 N @ 150 km/h | 32.1 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	2250 mm | 88.583 in

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Net Weight, without mounting kit	19 kg	41.888 lb
Weight, gross	27.6 kg	60.848 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

CE e ISO 9001:2015

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

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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.

General Specifications

Application	Outdoor
Color	Silver

Dimensions

Compatible Diameter, maximum	114.3 mm | 4.5 in
Compatible Diameter, minimum	61 mm | 2.402 in

Material Specifications

Material Type	Galvanized steel

Packaging and Weights

Included	Brackets | Hardware
Packaging quantity	1

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

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