

DBXLH-6565C-VTM



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

This product will be discontinued on: March 30, 2024

General Specifications

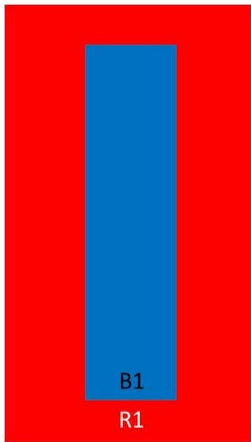
Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	PVC, UV resistant
Radiator Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	2
RF Connector Quantity, low band	2
RF Connector Quantity, total	4

Dimensions

Width	269 mm 10.591 in
Depth	132 mm 5.197 in
Length	2577 mm 101.457 in
Net Weight, without mounting kit	21.7 kg 47.84 lb

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



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2180 MHz 824 – 960 MHz
Polarization	±45°

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Electrical Specifications

Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	16.8	17.4	18.5	18.7	18.3
Beamwidth, Horizontal, degrees	70.2	67.2	65.8	61.9	60.2
Beamwidth, Vertical, degrees	7.7	7.4	4.9	4.6	4.3
Beam Tilt, degrees	0–8	0–8	0–6	0–6	0–6
USLS (First Lobe), dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	26	27	32	32	28
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	35	35	35	35	35
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	16.6	17.1	17.7	17.6	17.6
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.5	±0.5	±0.6
Gain by Beam Tilt, average, dBi	0° 16.7 4° 16.7 8° 16.5	0° 17.2 4° 17.2 8° 17.0	0° 17.7 3° 17.7 6° 17.4	0° 17.9 3° 17.7 6° 17.1	0° 17.9 3° 17.8 6° 17.0
Beamwidth, Horizontal Tolerance, degrees	±2.4	±2.8	±4.9	±2	±3.5
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.3	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	14	14	11	12	13
Front-to-Back Total Power at 180° ± 30°, dB	22	22	26	28	27
CPR at Boresight, dB	23	21	18	17	15
CPR at Sector, dB	17	11	10	9	7

Mechanical Specifications

Wind Loading @ Velocity, frontal

922.0 N @ 150 km/h (207.3 lbf @ 150 km/h)

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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	2717 mm 106.969 in
Weight, gross	31 kg 68.343 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



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

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.

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

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