

# DBXRH-8585C-VTM



4-port sector antenna, 2x 698–960 and 2x 1710–2180 MHz, 85° HPBW, RET compatible

- Patented dipole technology
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

## General Specifications

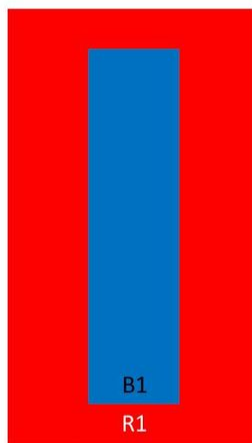
Antenna Type	Sector
Band	Multiband
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Brass   Low loss circuit board
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	301 mm   11.85 in
Length	2449 mm   96.417 in
Depth	181 mm   7.126 in

## Array Layout

# DBXRH-8585C-VTM



Bottom

Array	Freq (MHz)	Conns
R1	698-960	1-2
B1	1710-2180	3-4

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

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2180 MHz   698 – 960 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	698–806	806–896	870–960	1710–1880	1850–1990	1920–2180
<b>Gain, dBi</b>	15.1	15	16.2	17	16.7	17.1
<b>Beamwidth, Horizontal, degrees</b>	89	83	84	79	82	85
<b>Beamwidth, Vertical, degrees</b>	8.5	7.6	7.3	4.7	4.4	4.2
<b>Beam Tilt, degrees</b>	0–11	0–11	0–11	0–6	0–6	0–6

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USLS (First Lobe), dB	15	15	15	16	17	17
Front-to-Back Ratio at 180°, dB	30	28	28	29	29	29
CPR at Boresight, dB	25	22	21	20	20	20
CPR at Sector, dB	13	11	10	9	9	10
Isolation, Cross Polarization, dB	30	30	30	30	30	30
Isolation, Inter-band, dB	30	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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	400	400	400	300	300	300

## Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	870–960	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	14.6	15.2	15.7	16.4	16.6	16.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.9	±0.5	±0.3	±0.3	±0.3
Gain by Beam Tilt, average, dBi	0°   14.7 5°   14.6 11°   14.2	0°   15.2 5°   15.1 11°   14.9	0°   15.7 5°   15.7 11°   15.2	0°   16.3 3°   16.4 6°   16.4	0°   16.5 3°   16.7 6°   16.5	0°   16.7 3°   16.8 6°   16.6
Beamwidth, Horizontal Tolerance, degrees	±6.3	±3.1	±2.8	±5	±4.5	±4.4
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.4	±0.2	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	15	15	15	17	18	18
Front-to-Back Total Power at 180° ± 30°, dB	16	19	20	23	23	22
CPR at Boresight, dB	25	22	22	20	18	17
CPR at Sector, dB	13	11	10	8	10	10

## Mechanical Specifications

Wind Loading at Velocity, frontal	396.0 N @ 150 km/h   89.0 lbf @ 150 km/h
Wind Loading at Velocity, lateral	333.0 N @ 150 km/h   74.9 lbf @ 150 km/h
Wind Loading at Velocity, maximum	171.3 lbf @ 150 km/h   762.0 N @ 150 km/h
Wind Speed, maximum	241 km/h   149.75 mph

## Packaging and Weights

Width, packed	410 mm   16.142 in
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Depth, packed	295 mm   11.614 in
Length, packed	2765 mm   108.858 in
Net Weight, without mounting kit	21.9 kg   48.281 lb
Weight, gross	35.7 kg   78.705 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant



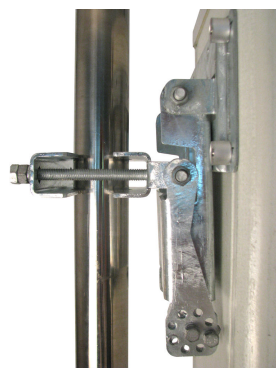
## Included Products

BSAMNT-3	Wide Profile Antenna 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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# BSAMNT-3



Wide Profile Antenna 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
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## Packaging and Weights

Included	Brackets   Hardware
Packaging quantity	1

## Regulatory Compliance/Certifications

Agency	Classification
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ROHS	Compliant

