

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

OBSOLETE

This product was discontinued on: March 31, 2022

General Specifications

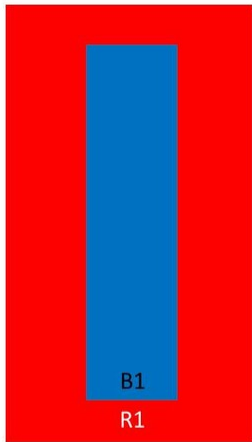
Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	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
Depth	181 mm 7.126 in
Length	2449 mm 96.417 in
Net Weight, without mounting kit	21.9 kg 48.281 lb

Array Layout

DBXRH-8585C-VTM



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

Bottom

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

Electrical Specifications

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

Electrical Specifications

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

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Input Power per Port, maximum, watts	400	400	400	300	300	300
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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 @ Velocity, frontal	396.0 N @ 150 km/h (89.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	333.0 N @ 150 km/h (74.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	762.0 N @ 150 km/h (171.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	401.0 N @ 150 km/h (90.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	410 mm 16.142 in
Depth, packed	295 mm 11.614 in
Length, packed	2765 mm 108.858 in
Weight, gross	35.7 kg 78.705 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives

DBXRH-8585C-VTM

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

- 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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 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

BSAMNT-3

