

CVV65DSX-M



6-port sector antenna, 2x 790–960 and 4x 1710–2690 MHz, 65° HPBW, RET compatible

- Three DualPol® antennas under one radome
- Utilizes AccuRET® actuator(s) on the back of the antenna

Electrical Specifications

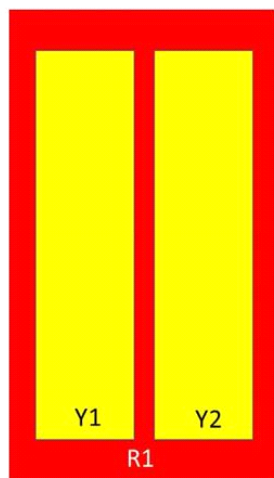
Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain, dBi	16.8	17.0	17.6	18.0	18.2	18.0	18.7
Beamwidth, Horizontal, degrees	62	60	70	69	68	57	60
Beamwidth, Vertical, degrees	7.6	7.1	5.5	5.3	5.0	4.4	4.1
Beam Tilt, degrees	0–10	0–10	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	15	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	30	30	28	26	24	25	28
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	300	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	16.5	16.7	17.3	17.6	17.8	17.9	18.2
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.5	±0.3	±0.5	±0.8	±0.5
Gain by Beam Tilt, average, dBi	0° 16.3 5° 16.6 10° 16.4	0° 16.5 5° 16.8 10° 16.5	2° 17.2 7° 17.3 12° 17.2	2° 17.5 7° 17.7 12° 17.5	2° 17.7 7° 17.9 12° 17.7	2° 17.9 7° 18.1 12° 17.6	2° 18.1 7° 18.3 12° 17.8
Beamwidth, Horizontal Tolerance, degrees	±1.8	±1.2	±3.4	±2.9	±5.7	±5.6	±6.5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.3	±0.3	±0.2	±0.3	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	18	16	16	16	16	16	17
Front-to-Back Total Power at 180° ± 30°, dB	27	27	25	24	22	21	22
CPR at Boresight, dB	29	28	24	22	20	17	17
CPR at Sector, dB	13	12	12	9	10	4	7

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

Array Layout



Array	Freq (MHz)	Conns
R1	790-960	1-2
Y1	1710-2690	3-4
Y2	1710-2690	5-6

Left Right
Bottom

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

General Specifications

Operating Frequency Band	1710 – 2690 MHz 790 – 960 MHz
Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage
Total Input Power, maximum	600 W @ 50 °C

Mechanical Specifications

RF Connector Quantity, total	6
RF Connector Quantity, low band	2
RF Connector Quantity, high band	4
RF Connector Interface	7-16 DIN Female
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Copper Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	444.0 N @ 150 km/h 99.8 lbf @ 150 km/h
Wind Loading, lateral	377.0 N @ 150 km/h 84.8 lbf @ 150 km/h
Wind Loading, maximum	856.0 N @ 150 km/h

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Wind Speed, maximum 192.4 lbf @ 150 km/h
241 km/h | 150 mph

Dimensions

Length 2702.0 mm | 106.4 in
Width 301.0 mm | 11.9 in
Depth 181.0 mm | 7.1 in
Net Weight, without mounting kit 23.3 kg | 51.4 lb

Packed Dimensions

Length 2833.0 mm | 111.5 in
Width 441.0 mm | 17.4 in
Depth 337.0 mm | 13.3 in
Shipping Weight 41.0 kg | 90.4 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014
CE

Classification

Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
Compliant with the relevant CE product directives



Included Products

BSAMNT-OFFSET — Forward Offset Pipe Mounting Kit for 4.5 in (114.3 mm) OD round members

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance