

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

OBSOLETE

This product was discontinued on: **March 31, 2021**

Replaced By:

RVV-65D-R3

6-port sector antenna, 2 x 694-960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET

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	Copper Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Dimensions

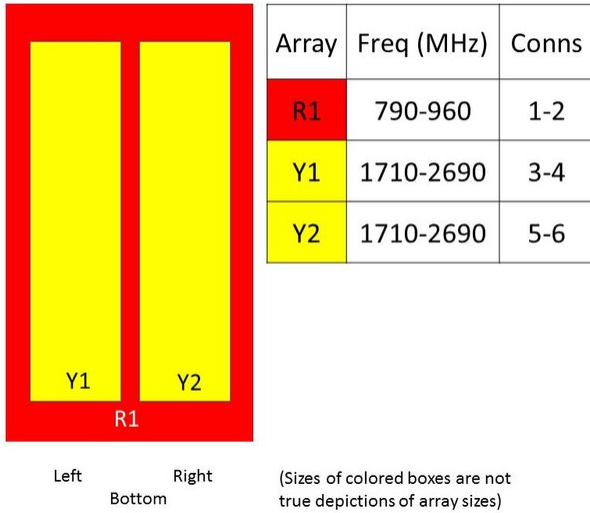
Width	301 mm 11.85 in
Depth	181 mm 7.126 in

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Length 2702 mm | 106.378 in

Net Weight, without mounting kit 23.3 kg | 51.368 lb

Array Layout



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1710 – 2690 MHz | 790 – 960 MHz

Polarization $\pm 45^\circ$

Total Input Power, maximum 600 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain, dBi	16.8	17	17.6	18	18.2	18	18.7
Beamwidth, Horizontal, degrees	62	60.2	70	69	68	57.3	60
Beamwidth, Vertical, degrees	7.6	7.1	5.5	5.3	5	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

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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

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

Mechanical Specifications

Wind Loading @ Velocity, frontal	444.0 N @ 150 km/h (99.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	377.0 N @ 150 km/h (84.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	856.0 N @ 150 km/h (192.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	450.0 N @ 150 km/h (101.2 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	441 mm 17.362 in
Depth, packed	337 mm 13.268 in
Length, packed	2833 mm 111.535 in
Weight, gross	41 kg 90.389 lb

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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

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

Performance Note	Severe environmental conditions may degrade optimum performance
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