CV65CSX-M | CV65CSX-2X2

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

- Two DualPol® antennas under one radome
- Each antenna is independently capable of field adjustable electrical tilt
- Fully compatible with Andrew Teletilt® remote control system

Electrical Specifications

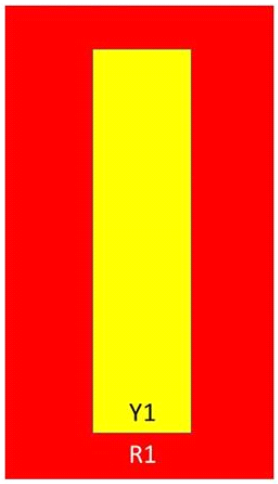
Frequency Band, MHz	**790–896**	**870–960**	**1710–1880**	**1850–1990**	**1920–2180**	**2300–2500**	**2500–2690**
Gain, dBi	16.7	16.8	17.6	18.0	18.1	18.3	18.6
Beamwidth, Horizontal, degrees	63	62	70	67	67	56	60
Beamwidth, Vertical, degrees	8.1	7.6	5.6	5.3	5.1	4.4	4.1
Beam Tilt, degrees	0–10	0–10	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	15	16	16	16	17	19
Front-to-Back Ratio at 180°, dB	30	30	27	28	23	27	30
CPR at Boresight, dB	27	25	19	20	20	16	19
CPR at Sector, dB	10	10	10	8	9	3	6
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, maximum, watts	350	350	350	350	350	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	16.3	16.3	17.2	17.6	17.6	17.9	18.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.5	±0.3	±0.5	±0.7	±0.4
Gain by Beam Tilt, average, dBi	0 ° | 16.3 5 ° | 16.4 10 ° | 16.1	0 ° | 16.4 5 ° | 16.4 10 ° | 16.1	2 ° | 17.1 7 ° | 17.3 12 ° | 17.2	2 ° | 17.5 7 ° | 17.7 12 ° | 17.5	2 ° | 17.5 7 ° | 17.7 12 ° | 17.6	2 ° | 17.9 7 ° | 18.1 12 ° | 17.6	2 ° | 18.0 7 ° | 18.2 12 ° | 17.8
Beamwidth, Horizontal Tolerance, degrees	±2.2	±1.2	±4.4	±5.6	±5.6	±4.3	±5.2
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.5	±0.3	±0.2	±0.3	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	17	17	19	19	19	17	19
Front-to-Back Total Power at 180° ± 30°, dB	26	26	25	24	22	20	22
CPR at Boresight, dB	27	26	21	21	21	17	18
CPR at Sector, dB	13	13	12	9	9	5	6

* 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



Bottom

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

(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

Mechanical Specifications

RF Connector Quantity, total	4
RF Connector Quantity, low band	2
RF Connector Quantity, high band	2
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	396.0 N @ 150 km/h 89.0 lbf @ 150 km/h
Wind Loading, lateral	333.0 N @ 150 km/h 74.9 lbf @ 150 km/h
Wind Loading, maximum	762.0 N @ 150 km/h 171.3 lbf @ 150 km/h

Wind Speed, maximum	241 km/h | 150 mph

Dimensions

Length	2453.0 mm | 96.6 in
Width	301.0 mm | 11.9 in
Depth	181.0 mm | 7.1 in
Net Weight, without mounting kit	21.2 kg | 46.7 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator CV65CSX-2X2

Packed Dimensions

Length	2584.0 mm | 101.7 in
Width	441.0 mm | 17.4 in
Depth	337.0 mm | 13.3 in
Shipping Weight	38.1 kg | 84.0 lb

Regulatory Compliance/Certifications

Agency	**Classification**
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)
CE	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