

3X-V65S-C3-3XR



6-port small cell antenna, 6x 1695–2690 MHz, 65° HPBW, 3x RET.

- Three DualPol® antennas under one radome
- Fully integrated flange mounting system for ease of installation
- Aesthetically pleasing concealment solution for tough zoning areas
- 4.3-10 connector significantly improves PIM consistency and smaller footprint on antenna bottom

Electrical Specifications

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain, dBi	13.3	13.6	13.7	14.3	14.3
Beamwidth, Horizontal, degrees	74	73	72	68	71
Beamwidth, Vertical, degrees	18.7	17.5	16.7	14.6	13.6
Beam Tilt, degrees	0–20	0–20	0–20	0–20	0–20
USLS (First Lobe), dB	15	16	16	16	15
Front-to-Back Ratio at 180°, dB	32	31	30	34	36
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	35	35	35	35	35
VSWR Return Loss, dB	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	-153	-153	-153	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	13.0	13.4	13.5	14.1	14.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.3	±0.5	±0.6
Gain by Beam Tilt, average, dBi	0 ° 12.9 10 ° 13.1 20 ° 13.0	0 ° 13.3 10 ° 13.4 20 ° 13.3	0 ° 13.5 10 ° 13.6 20 ° 13.3	0 ° 14.1 10 ° 14.2 20 ° 13.6	0 ° 14.1 10 ° 14.3 20 ° 13.2
Beamwidth, Horizontal Tolerance, degrees	±2.5	±2.6	±3.1	±4.7	±4.1
Beamwidth, Vertical Tolerance, degrees	±1.5	±0.9	±1.2	±1.2	±1
USLS, beampeak to 20° above beampeak, dB	14	15	15	14	11
Front-to-Back Total Power at 180° ± 30°, dB	24	24	25	26	26
CPR at Boresight, dB	19	22	22	24	18
CPR at Sector, dB	10	10	7	7	9

* 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.](#)

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General Specifications

Operating Frequency Band	1695 – 2690 MHz
Antenna Type	Small Cell
Band	Single band
Performance Note	Outdoor usage
Total Input Power, maximum	400 W @ 50 °C

Mechanical Specifications

RF Connector Quantity, total	6
RF Connector Quantity, high band	6
RF Connector Interface	4.3-10 Female
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	58.0 N @ 150 km/h 13.0 lbf @ 150 km/h
Wind Loading, maximum	58.0 N @ 150 km/h 13.0 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	596.0 mm 23.5 in
Outer Diameter	200.0 mm 7.9 in
Net Weight, without mounting kit	7.4 kg 16.3 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal RET	High band (3)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
RET Interface	8-pin DIN Male
RET Interface, quantity	1 male

Packed Dimensions

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Length	850.0 mm 33.5 in
Width	320.0 mm 12.6 in
Depth	300.0 mm 11.8 in
Shipping Weight	10.2 kg 22.5 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



* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance