

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

General Specifications

Antenna Type	Small Cell
Band	Single band
Color	Light gray
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	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	6
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information, General

RET Interface	8-pin DIN Male
RET Interface, quantity	1 male

Dimensions

Length	596 mm 23.465 in
Outer Diameter	200 mm 7.874 in

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz

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Polarization	±45°
Total Input Power, maximum	400 W @ 50 °C

Remote Electrical Tilt (RET) Information, Electrical

Protocol	3GPP/AISG 2.0 (Multi-RET)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Input Voltage	10–30 Vdc
Internal RET	High band (3)

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	67.5	70.6
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

Electrical Specifications, BASTA

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	13	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

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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

Mechanical Specifications

Wind Loading at Velocity, frontal	13.0 lbf @ 150 km/h 58.0 N @ 150 km/h
Wind Loading at Velocity, maximum	13.0 lbf @ 150 km/h 58.0 N @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	320 mm 12.598 in
Depth, packed	300 mm 11.811 in
Length, packed	850 mm 33.465 in
Net Weight, without mounting kit	7.4 kg 16.314 lb
Weight, gross	10.2 kg 22.487 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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



* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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