

# 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
- Ideal concealment solution for areas with special regulations regarding visual impact
- 4.3-10 connector significantly improves PIM consistency and smaller footprint on antenna bottom

## General Specifications

<b>Antenna Type</b>	Small Cell
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	6
<b>RF Connector Quantity, total</b>	6

## Remote Electrical Tilt (RET) Information

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

## Dimensions

# 3X-V65S-C3-3XR

<b>Length</b>	596 mm   23.465 in
<b>Net Weight, without mounting kit</b>	7.4 kg   16.314 lb
<b>Outer Diameter</b>	200 mm   7.874 in

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	400 W @ 50 °C

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>Gain, dBi</b>	13.3	13.6	13.7	14.3	14.3
<b>Beamwidth, Horizontal, degrees</b>	74	73	72	67.5	70.6
<b>Beamwidth, Vertical, degrees</b>	18.7	17.5	16.7	14.6	13.6
<b>Beam Tilt, degrees</b>	0–20	0–20	0–20	0–20	0–20
<b>USLS (First Lobe), dB</b>	15	16	16	16	15
<b>Front-to-Back Ratio at 180°, dB</b>	32	31	30	34	36
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	35	35	35	35	35
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-150	-150
<b>Input Power per Port, maximum, watts</b>	300	300	300	250	250

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	13	13.4	13.5	14.1	14.2
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.4	±0.3	±0.3	±0.5	±0.6
<b>Gain by Beam Tilt, average, dBi</b>	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
<b>Beamwidth, Horizontal</b>	±2.5	±2.6	±3.1	±4.7	±4.1

# 3X-V65S-C3-3XR

## Tolerance, degrees

<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.5	±0.9	±1.2	±1.2	±1
<b>USLS, beampeak to 20° above beampeak, dB</b>	14	15	15	14	11
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	24	24	25	26	26
<b>CPR at Boresight, dB</b>	19	22	22	24	18
<b>CPR at Sector, dB</b>	10	10	7	7	9

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	58.0 N @ 150 km/h (13.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	58.0 N @ 150 km/h (13.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	58.0 N @ 150 km/h (13.0 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	320 mm   12.598 in
<b>Depth, packed</b>	300 mm   11.811 in
<b>Length, packed</b>	850 mm   33.465 in
<b>Weight, gross</b>	10.2 kg   22.487 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CE	Compliant with the relevant CE product directives
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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