

# V360QS-C3-3XR



2-port small cell antenna, 2x 1695–2690 MHz, 360° HPBW, 1x RET

- Provides a future-ready antenna solution with flexibility to reassign antenna, for example GSM 1800 service to 2.6GHz LTE at a later date
- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands
- Excellent RF pattern control over the full operating band and tilt range for desired coverage and interference containment
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

## 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>	2
<b>RF Connector Quantity, total</b>	2

## 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)

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## Dimensions

<b>Length</b>	596 mm   23.465 in
<b>Net Weight, without mounting kit</b>	7.3 kg   16.094 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°

## 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>	8.9	9.5	9.6	10.1	10.2
<b>Beamwidth, Horizontal, degrees</b>	360	360	360	360	360
<b>Beamwidth, Vertical, degrees</b>	18.4	17.2	16.1	14.4	13.1
<b>Beam Tilt, degrees</b>	0–20	0–20	0–20	0–20	0–20
<b>USLS (First Lobe), dB</b>	16	16	15	15	15
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25
<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>	100	100	100	100	100

## 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>	8.4	8.9	9.1	9.6	9.7
<b>Gain by all Beam Tilts Tolerance, dB</b>	±1.2	±0.6	±0.6	±0.8	±0.8
<b>Gain by Beam Tilt, average, dBi</b>	0° 8.3 10° 8.5 20° 8.2	0° 8.9 10° 9.0 20° 8.6	0° 9.2 10° 9.2 20° 8.7	0° 9.6 10° 9.6 20° 9.2	0° 9.7 20° 9.0 10° 10.0
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.2	±1	±1.3	±1.2	±1.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	15	14	14	14	12

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## 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>	10.1 kg   22.267 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



## \* Footnotes

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