

V360QS-C3-3XR



2-port small cell antenna, 2x 1695–2690 MHz, 360° HPBW, 3x 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

Electrical Specifications

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain, dBi	8.9	9.5	9.6	10.1	10.2
Beamwidth, Horizontal, degrees	360	360	360	360	360
Beamwidth, Vertical, degrees	18.4	17.2	16.1	14.4	13.1
Beam Tilt, degrees	0–20	0–20	0–20	0–20	0–20
USLS (First Lobe), dB	16	16	15	15	15
Isolation, Cross Polarization, dB	25	25	25	25	25
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	100	100	100	100	100
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	8.4	8.9	9.1	9.6	9.7
Gain by all Beam Tilts Tolerance, dB	±1.2	±0.6	±0.6	±0.8	±0.8
Gain by Beam Tilt, average, dBi	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 10 ° 10.0 20 ° 9.0
Beamwidth, Vertical Tolerance, degrees	±1.2	±1	±1.3	±1.2	±1.2
USLS, beampeak to 20° above beampeak, dB	15	14	14	14	12

* 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](#).

General Specifications

Operating Frequency Band	1695 – 2690 MHz
Antenna Type	Small Cell
Band	Single band
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	2
RF Connector Quantity, high band	2
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	7.3 kg 16.1 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 Female
RET Interface, quantity	1 female

Packed Dimensions

Length	850.0 mm 33.5 in
Width	320.0 mm 12.6 in
Depth	300.0 mm 11.8 in
Shipping Weight	10.1 kg 22.3 lb

Regulatory Compliance/Certifications

Agency	Classification
--------	----------------

V360QS-C3-3XR

RoHS 2011/65/EU

ISO 9001:2015

China RoHS SJ/T 11364-2014

CE

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