

# V360QS-GC3-3XR



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

- 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

## OBSOLETE

This product was discontinued on: March 27, 2020

### Replaced By:

V360QS-C3-3XR

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

## General Specifications

|   |  |
|---|--|
| <b>Antenna Type</b>                     | Small Cell   |
| <b>Band</b>                             | Single band  |
| <b>Color</b>                            | Light Gray (RAL 7035)  |
| <b>GPS Connector Interface</b>          | 4.3-10 Female  |
| <b>GPS Connector Quantity</b>           | 1  |
| <b>Grounding Type</b>                   | RF connector inner conductor and body grounded to reflector and mounting bracket |
| <b>Internal GPS frequency band</b>      | 1,575.42 MHz   |
| <b>Internal GPS VSWR</b>                | 2  |
| <b>Performance Note</b>                 | Outdoor usage  |
| <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  |

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|                                 |   |
|---------------------------------|---|
| RF Connector Quantity, mid band | 0 |
| RF Connector Quantity, low band | 0 |
| RF Connector Quantity, total    | 2 |

## Remote Electrical Tilt (RET) Information

|   |                            |
|---|----------------------------|
| RET Interface                                 | 8-pin DIN Male             |
| RET Interface, quantity                       | 1 male                     |
| 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 (Single RET) |

## Dimensions

|                                  |                    |
|----------------------------------|--------------------|
| Depth                            | 200 mm   7.874 in  |
| Length                           | 596 mm   23.465 in |
| Net Weight, without mounting kit | 7.3 kg   16.094 lb |
| Outer Diameter                   | 200 mm   7.874 in  |

## Electrical Specifications

|                          |                 |
|--------------------------|-----------------|
| Impedance                | 50 ohm          |
| Operating Frequency Band | 1695 – 2690 MHz |
| Polarization             | ±45°            |

## 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  |

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|   |      |      |      |      |      |
|---|------|------|------|------|------|
| <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  |

## 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                              |
| 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 |
|-------------------------|---|