



2-port small cell antenna, 2x 1695–2690 MHz, 65° HPBW, 1x RET with manual override.

- 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
- RF technology flexible—suitable for LTE, UMTS, CDMA, GSM, AWS, WiMAX, and other applications from 1.7–2.7 GHz
- Excellent RF pattern control over the full operating band and tilt range for desired coverage and interference containment
- 4.3-10 connector significantly improves PIM consistency and smaller footprint on antenna bottom

## Electrical Specifications

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain, dBi	13.4	13.8	13.9	14.4	14.5
Beamwidth, Horizontal, degrees	70	68	69	63	61
Beamwidth, Vertical, degrees	18.5	17.2	16.4	14.4	13.6
Beam Tilt, degrees	0–20	0–20	0–20	0–20	0–20
USLS (First Lobe), dB	15	17	17	17	14
Front-to-Back Ratio at 180°, dB	27	27	28	28	25
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	-153	-153
Input Power per Port, maximum, watts	300	300	300	250	250
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	13.1	13.5	13.5	14.1	14.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.6	±0.6	±0.6	±0.6
Gain by Beam Tilt, average, dBi	0 °   13.0 10 °   13.2 20 °   13.1	0 °   13.5 10 °   13.5 20 °   13.3	0 °   13.5 10 °   13.5 20 °   13.3	0 °   14.1 10 °   14.2 20 °   13.3	0 °   14.2 10 °   14.2 20 °   13.4
Beamwidth, Horizontal Tolerance, degrees	±3.2	±2.7	±3.7	±4	±4.9
Beamwidth, Vertical Tolerance, degrees	±1.4	±1.5	±1.2	±1	±1
USLS, beampeak to 20° above beampeak, dB	15	17	17	17	14
Front-to-Back Total Power at 180° ± 30°, dB	24	24	24	25	23
CPR at Boresight, dB	19	20	19	16	15
CPR at Sector, dB	16	15	14	5	7

\* 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

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

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	2
<b>RF Connector Quantity, high band</b>	2
<b>RF Connector Interface</b>	4.3-10 Female
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Radiator Material</b>	Low loss circuit board
<b>Radome Material</b>	PVC, UV resistant
<b>Reflector Material</b>	Aluminum
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	118.0 N @ 150 km/h 26.5 lbf @ 150 km/h
<b>Wind Loading, lateral</b>	48.0 N @ 150 km/h 10.8 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	241 km/h   150 mph

## Dimensions

<b>Length</b>	600.0 mm   23.6 in
<b>Width</b>	170.0 mm   6.7 in
<b>Depth</b>	105.0 mm   4.1 in
<b>Net Weight, without mounting kit</b>	3.8 kg   8.4 lb

## Remote Electrical Tilt (RET) Information

<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (1)
<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 (Single RET)
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male

# V65S-C3-1XR

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## Packed Dimensions

<b>Length</b>	726.0 mm   28.6 in
<b>Width</b>	302.0 mm   11.9 in
<b>Depth</b>	212.0 mm   8.3 in
<b>Shipping Weight</b>	8.9 kg   19.6 lb

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU

ISO 9001:2015

China RoHS SJ/T 11364-2014

CE

### Classification

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



## Included Products

**DB390** — Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts.

**DB5098** — Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

## \* Footnotes

### Performance Note

Severe environmental conditions may degrade optimum performance



Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts.

## General Specifications

<b>Application</b>	Outdoor
<b>Includes</b>	Brackets   Hardware
<b>Package Quantity</b>	1

## Mechanical Specifications

<b>Color</b>	Silver
<b>Material Type</b>	Galvanized steel

## Dimensions

<b>Compatible Diameter, maximum</b>	114.3 mm   4.5 in
<b>Compatible Diameter, minimum</b>	61.0 mm   2.4 in
<b>Net Weight</b>	2.0 kg   4.4 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)





## Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

### General Specifications

<b>Application</b>	Outdoor
<b>Includes</b>	Brackets   Hardware
<b>Package Quantity</b>	1

### Mechanical Specifications

<b>Color</b>	Silver
<b>Material Type</b>	Galvanized steel

### Dimensions

<b>Compatible Diameter, maximum</b>	114.3 mm   4.5 in
<b>Compatible Diameter, minimum</b>	61.0 mm   2.4 in
<b>Net Weight</b>	0.7 kg   1.4 lb

### Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)

