



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

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	PVC, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	118.0 N @ 150 km/h 26.5 lbf @ 150 km/h
Wind Loading, lateral	48.0 N @ 150 km/h 10.8 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

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

Remote Electrical Tilt (RET) Information

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

V65S-C3-1XR

Packed Dimensions

Length	726.0 mm 28.6 in
Width	302.0 mm 11.9 in
Depth	212.0 mm 8.3 in
Shipping Weight	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