

# 3X-V65A-3XR



6-port tri-sector antenna, 6x 1710–2690 MHz, 65° HPBW, 3x RET.

- Three DualPol® antennas under one radome
- Fully integrated flange mounting system for ease of installation
- Aesthetically pleasing concealment solution for tough zoning areas

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain, dBi	17.3	17.4	18.3	18.6	18.9
Beamwidth, Horizontal, degrees	73	72	69	65	63
Beamwidth, Vertical, degrees	6.8	6.5	6.1	5.3	5.1
Beam Tilt, degrees	0–12	0–12	0–12	0–12	0–12
USLS (First Lobe), dB	15	15	15	17	17
Front-to-Back Ratio at 180°, dB	29	27	27	25	29
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	30	30	30	30	30
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	-150	-150	-150	-150	-150
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	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	16.8	17.2	17.6	18.2	18.0
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5	±0.6	±0.6	±0.7
Gain by Beam Tilt, average, dBi	0°   16.9 6°   16.9 12°   16.5	0°   17.3 6°   17.3 12°   16.8	0°   17.7 6°   17.7 12°   17.1	0°   18.0 6°   18.4 12°   18.0	0°   18.1 6°   18.2 12°   17.4
Beamwidth, Horizontal Tolerance, degrees	±2.4	±4.4	±4	±5.5	±2.5
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.5	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	17	17	17	18	17
Front-to-Back Total Power at 180° ± 30°, dB	24	24	25	26	25
CPR at Boresight, dB	17	17	17	17	18
CPR at Sector, dB	13	12	11	7	9

\* 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.](#)

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## General Specifications

<b>Operating Frequency Band</b>	1710 – 2690 MHz
<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Performance Note</b>	Outdoor usage

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	6
<b>RF Connector Quantity, high band</b>	6
<b>RF Connector Interface</b>	7-16 DIN 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>	Fiberglass, UV resistant
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	211.0 N @ 150 km/h 47.4 lbf @ 150 km/h
<b>Wind Loading, maximum</b>	211.0 N @ 150 km/h 47.4 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	241 km/h   150 mph

## Dimensions

<b>Length</b>	1874.0 mm   73.8 in
<b>Outer Diameter</b>	200.0 mm   7.9 in
<b>Net Weight, without mounting kit</b>	19.0 kg   41.9 lb

## Remote Electrical Tilt (RET) Information

<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 (Single RET)
<b>RET Interface</b>	8-pin DIN Male
<b>RET Interface, quantity</b>	1 male

## Packed Dimensions

<b>Length</b>	2055.0 mm   80.9 in
<b>Width</b>	356.0 mm   14.0 in

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**Depth** 336.0 mm | 13.2 in  
**Shipping Weight** 25.4 kg | 56.0 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



## \* Footnotes

### Performance Note

Severe environmental conditions may degrade optimum performance