



3X-V65A-3XR

Andrew Micro AcCELLerator™ Tri-sector Antenna, 1710–2690 MHz, 3 x 65° horizontal beamwidth, internal 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, dB	15	15	15	17	17
Front-to-Back Ratio at 180°, dB	29	27	27	25	29
CPR at Boresight, dB	16	16	16	16	17
CPR at Sector, dB	12	12	11	9	9
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, 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	0° 17.3	0° 17.7	0° 18.0	0° 18.1
	6° 16.9	6° 17.3	6° 17.7	6° 18.4	6° 18.2
	12° 16.5	12° 16.8	12° 17.1	12° 18.0	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, 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.](#)

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® tri-sector with internal RET
Band	Single band
Brand	DualPol® Micro AcCELLerator™

3X-V65A-3XR



Operating Frequency Band 1710 – 2690 MHz

Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Low loss circuit board
Radome Material	Fiberglass, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	6
Wind Loading, maximum	325.0 N @ 150 km/h 73.1 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph

Dimensions

Length	1874.0 mm 73.8 in
Outer Diameter	200.0 mm 7.9 in
Net Weight	19.0 kg 41.9 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Power Consumption, idle state, maximum	2.0 W
Power Consumption, normal conditions, maximum	12.0 W
Protocol	3GPP/AISG 2.0 (Single RET)
RET Interface	8-pin DIN Male
RET Interface, quantity	1 male
RET System	Teletilt®

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

