

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
- Ideal concealment solution for areas with special regulations regarding visual impact

General Specifications

Antenna Type	Sector
Band	Single band
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	6
RF Connector Quantity, total	6

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

Length	1874 mm 73.78 in
Net Weight, without mounting kit	19 kg 41.888 lb
Outer Diameter	200 mm 7.874 in

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz
Polarization	±45°

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	73.3	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

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
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	±4.0	±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

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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

Mechanical Specifications

Wind Loading @ Velocity, frontal	211.0 N @ 150 km/h (47.4 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	211.0 N @ 150 km/h (47.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	211.0 N @ 150 km/h (47.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	356 mm 14.016 in
Depth, packed	336 mm 13.228 in
Length, packed	2055 mm 80.906 in
Weight, gross	25.4 kg 55.997 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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