

3X-V65S-C3-3XR



6-port small cell antenna, 6x 1695–2690 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
- 4.3-10 connector significantly improves PIM consistency and smaller footprint on antenna bottom

General Specifications

Antenna Type	Small Cell
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
Reflector Material	Aluminum
RF Connector Interface	4.3-10 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 (Multi-RET)

Dimensions

3X-V65S-C3-3XR

Length	596 mm 23.465 in
Net Weight, without mounting kit	7.4 kg 16.314 lb
Outer Diameter	200 mm 7.874 in

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	400 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain, dBi	13.3	13.6	13.7	14.3	14.3
Beamwidth, Horizontal, degrees	74	73	72	67.5	70.6
Beamwidth, Vertical, degrees	18.7	17.5	16.7	14.6	13.6
Beam Tilt, degrees	0–20	0–20	0–20	0–20	0–20
USLS (First Lobe), dB	15	16	16	16	15
Front-to-Back Ratio at 180°, dB	32	31	30	34	36
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	35	35	35	35	35
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	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	13	13.4	13.5	14.1	14.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.3	±0.5	±0.6
Gain by Beam Tilt, average, dBi	0° 12.9 10° 13.1 20° 13.0	0° 13.3 10° 13.4 20° 13.3	0° 13.5 10° 13.6 20° 13.3	0° 14.1 10° 14.2 20° 13.6	0° 14.1 10° 14.3 20° 13.2
Beamwidth, Horizontal	±2.5	±2.6	±3.1	±4.7	±4.1

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Tolerance, degrees

Beamwidth, Vertical Tolerance, degrees	±1.5	±0.9	±1.2	±1.2	±1
USLS, beampeak to 20° above beampeak, dB	14	15	15	14	11
Front-to-Back Total Power at 180° ± 30°, dB	24	24	25	26	26
CPR at Boresight, dB	19	22	22	24	18
CPR at Sector, dB	10	10	7	7	9

Mechanical Specifications

Wind Loading @ Velocity, frontal	58.0 N @ 150 km/h (13.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	58.0 N @ 150 km/h (13.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	58.0 N @ 150 km/h (13.0 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	320 mm 12.598 in
Depth, packed	300 mm 11.811 in
Length, packed	850 mm 33.465 in
Weight, gross	10.2 kg 22.487 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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