

3X-C70B-3XR



6-port tri-sector antenna, 3x 790–960 MHz, 70° HPBW, 3x RET

- Three DualPol® antennas under one radome
- Fully integrated flange mounting system for ease of installation
- Each antenna allows for independent beam tilting to optimize each sector
- Ideal concealment solution for areas with special regulations regarding visual impact

OBSOLETE

This product was discontinued on: March 31, 2021

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
Radome Material	ASA, UV stabilized
Radiator Material	Aluminum
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, low band	6
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

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

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Dimensions

Length	2200 mm 86.614 in
Net Weight, without mounting kit	37.1 kg 81.791 lb
Outer Diameter	270 mm 10.63 in

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	790 – 960 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	790–896	870–960
Gain, dBi	15	15.5
Beamwidth, Horizontal, degrees	71.9	71
Beamwidth, Vertical, degrees	10.9	10.2
Beam Tilt, degrees	0–14	0–14
USLS (First Lobe), dB	17	17
Front-to-Back Ratio at 180°, dB	21	22
Isolation by Beam Tilt, dB	28, 0° – 2° 30, 3° – 14°	28, 0° – 2° 30, 3° – 14°
Isolation, Inter-band, dB	30	30
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	350	350

Electrical Specifications, BASTA

Frequency Band, MHz	790–896	870–960
Gain by all Beam Tilts, average, dBi	14.6	15.2
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4
Gain by Beam Tilt, average, dBi	0° 14.6 7° 14.7 14° 14.4	0° 15.1 7° 15.3 14° 14.8
Beamwidth, Horizontal Tolerance, degrees	±2.4	±1.1
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6
USLS, beampeak to 20° above beampeak, dB	16	15

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Front-to-Back Total Power at 180° ± 30°, dB	17	18
CPR at Boresight, dB	16	15
CPR at Sector, dB	10	9

Mechanical Specifications

Wind Loading @ Velocity, maximum	522.0 N @ 150 km/h (117.4 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	466 mm 18.346 in
Depth, packed	436 mm 17.165 in
Length, packed	2403 mm 94.606 in
Weight, gross	47.3 kg 104.279 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below 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
UK-ROHS	Compliant



* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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