O2P-2L-B1

2 Port omni antenna, 2x 694–960 MHz, 360° HPBW, 1x RET

- Single antenna provides for 2xMIMO and Rx diversity service
- Simplifies infrastructure and space requirements compared to traditional V-pol antennas
- Ideal solution for rural coverage

General Specifications

Antenna Type	Omni
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 resistant
Radiator Material	Aluminum | Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, low band	2
RF Connector Quantity, total	2

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Male
Input Voltage	10–30 Vdc
Internal RET	Low band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Length	1999 mm | 78.701 in
Net Weight, antenna only	22.6 kg | 49.824 lb

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Outer Diameter	305 mm | 12.008 in

Port Configuration

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	300 W

Electrical Specifications

	R1	R1	R1
Frequency Band, MHz	**694–790**	**790–890**	**890–960**

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RF Port	1,2	1,2	1,2
Gain, dBi	10.4	11	11.4
Beamwidth, Horizontal, degrees	360	360	360
Beamwidth, Vertical, degrees	13.2	11.7	10.5
Beam Tilt, degrees	2–14	2–14	2–14
USLS (First Lobe), dB	20	19	19
Isolation, Cross Polarization, dB	25	25	25
VSWR | Return loss, dB	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250

Mechanical Specifications

Wind Loading @ Velocity, frontal	376.0 N @ 150 km/h (84.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	376.0 N @ 150 km/h (84.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	376.0 N @ 150 km/h (84.5 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	420 mm | 16.535 in
Depth, packed	400 mm | 15.748 in
Length, packed	2265 mm | 89.173 in
Weight, gross	29.2 kg | 64.375 lb

Regulatory Compliance/Certifications

Agency	**Classification**
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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