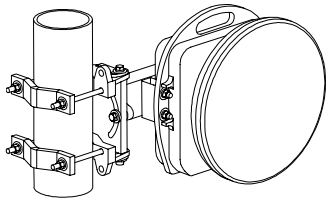
HXI, Gigalink™ 7451 Specifications

High-Performance 1.25Gbps E-Band Radio Link for Light-licensed deployment



Operating Range	7451
Minimum to Maximum Distance	300 m to 5,200 m
Millimeter Wave Performance	**7451**
Frequency	71.0 to 76.0 GHz
RF Injection Power into Antenna	40mW (+16dBm)
Antenna Type	Integral 13-in. parabolic
Antenna Gain	44.8dBi
3-dB Beam Width	0.80 degree
Interfaces	
Payload Interface	Gigabit Ethernet, 1000Base-SX, 850 nm, FC connector
Management	100Base-FX, MMF, 1310 nm, FC connector
Installation	10Base-T, RJ-45 Modular (with adapter cable)
Power	MIL-C-5015-type connector for 12- to 16-AWG three-conductor power cable
Management	
Installation Tools	Laptop-based GUI software provided
Remote Monitoring	via SNMP V1 or PC Based GUI
Regulatory Compliance	
Electrical	UL - UL60950, EN-60950-1, IEC 609050-1
EMC	EN 55022, Emissions Class A, EN 301 489 Immunity
Laser Safety	CDRH - Class 1 (21 CFR 1040 per Laser Notice No. 50)
Power**	
Input Voltage	-48 VDC nominal (-40 to -57 VDC)
Power Consumption	70W Max.
Maximum Input Current	1.5 Amps
Environmental & Mechanical	
Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Storage Temperature	-30°C to 85°C (-22°F to 185°F)
Relative Humidity	Up to 95%, non-condensing
Transceiver H x W x D	13.6 x 13.7 x 7.7 in. (34.5 x 34.8 x 19.6 cm)
Mount Lever Arm***	11 in. (28 cm)
Transceiver Weight	12 lbs (5.5 kg)

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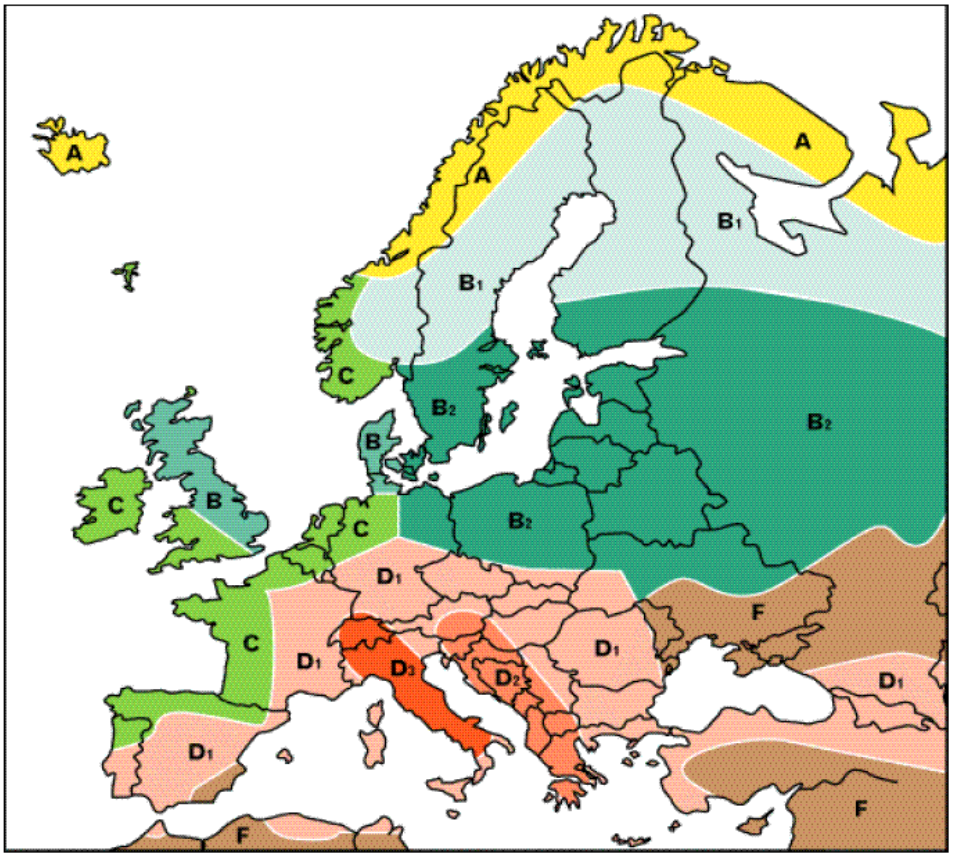
Statistical Availability and range performance vs. region of operation



Model	SLA	A	B	B_1	B2	C	D1	D2	D3	E	F	G	H
Gigalink 7451	*Range 300- 8,800 meters clear air*												
	99.90%	8,010	5,390	6,110	4,935	4,475	3,720	2,920	2,260	1,710	5,390	1,801	1,200
	99.99%	3,670	2,440	2,810	2,175	2,400	1,695	1,401	1,212	983	2,200	957	726
	99.999%	1,935	1,278	1,475	1,140	1,070	1,385	888	799	682	1,190	650	N/A

Recommended ranges and statistical availabilities based on "Crane" Model calculations using published annual rain rates. Precision terminal alignment of +/- 0.40° is required to achieve predicted reliability at referenced ranges of operation.

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