

HXI, Gigalink™ 7651 Specifications

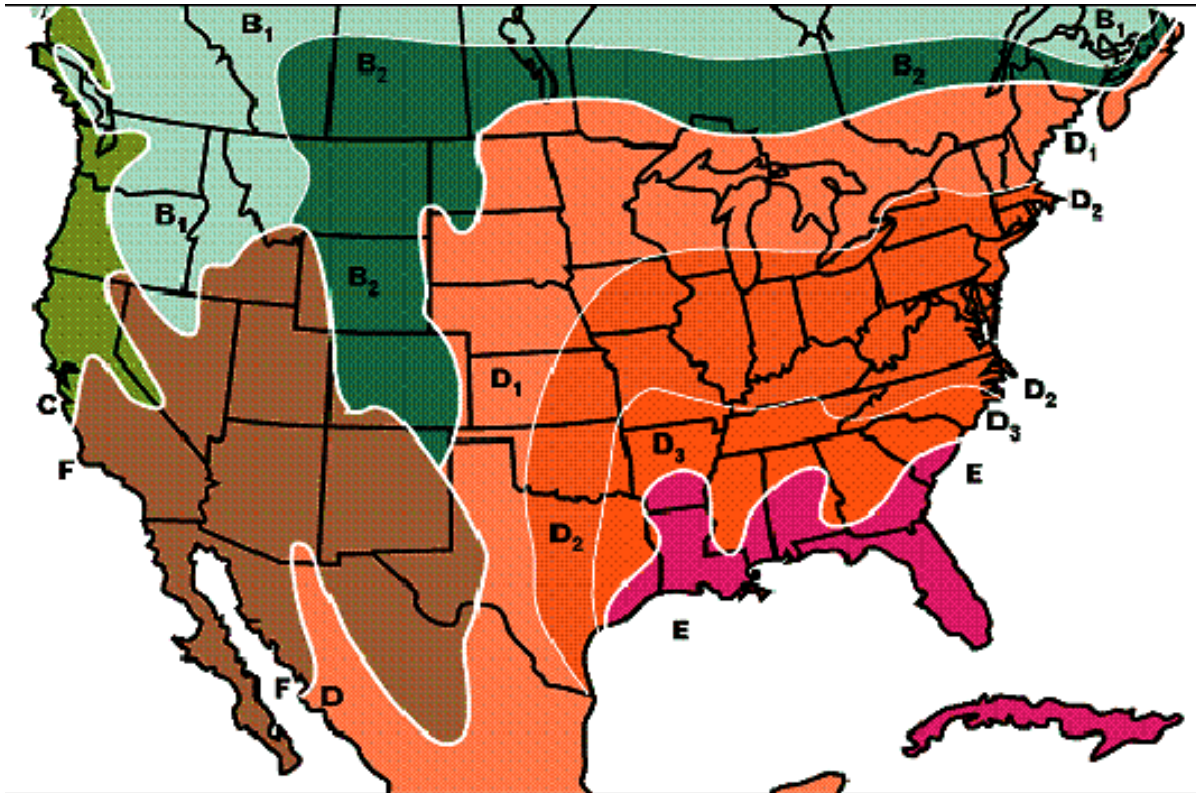
High-Performance 1.25Gbps E-Band Radio Link for Light-licensed deployment



Operating Range	7651
Minimum to Maximum Distance	800 m to 8,200 m
Millimeter Wave Performance	7651
Frequency	71.0 to 76.0 GHz
RF Injection Power into Antenna	20mW (+13dBm)
Antenna Type	Integral 24-in. parabolic
Antenna Gain	50dBi
3-dB Beam Width	0.45 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	25 x 25 x 14.7 in. (64.5 x 64.5 x 37.3 cm)
Mount Lever Arm***	11 in. (28 cm)
Transceiver Weight	22 lbs (10 kg)

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Statistical Availability and range performance vs. region of operation



Model	SLA	A	B	B ₁	B ₂	C	D ₁	D ₂	D ₃	E	F	G	H
Gigalink 7651	Range 800- 17,500 meters clear air												
	99.90%	13,450	8,340	9,620	7,510	6,710	5,430	4,160	3,145	2,315	8,340	2,455	1,585
	99.99%	5,370	3,410	3,980	3,010	3,350	2,295	1,870	1,600	1,280	3,050	1,245	931
	99.999%	2,650	1,695	1,975	1,500	1,403	1,850	1,139	1,030	872	1,570	829	N/A

Recommended ranges and statistical availabilities based on “Crane” Model calculations using published annual rain rates. Precision terminal alignment of +/- 0.25° is required to achieve predicted reliability at referenced ranges of operation.

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