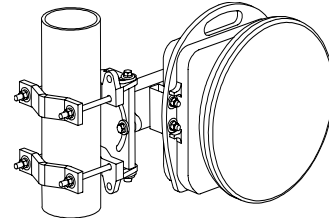


HXI, Gigalink™ 6451eJ Specifications

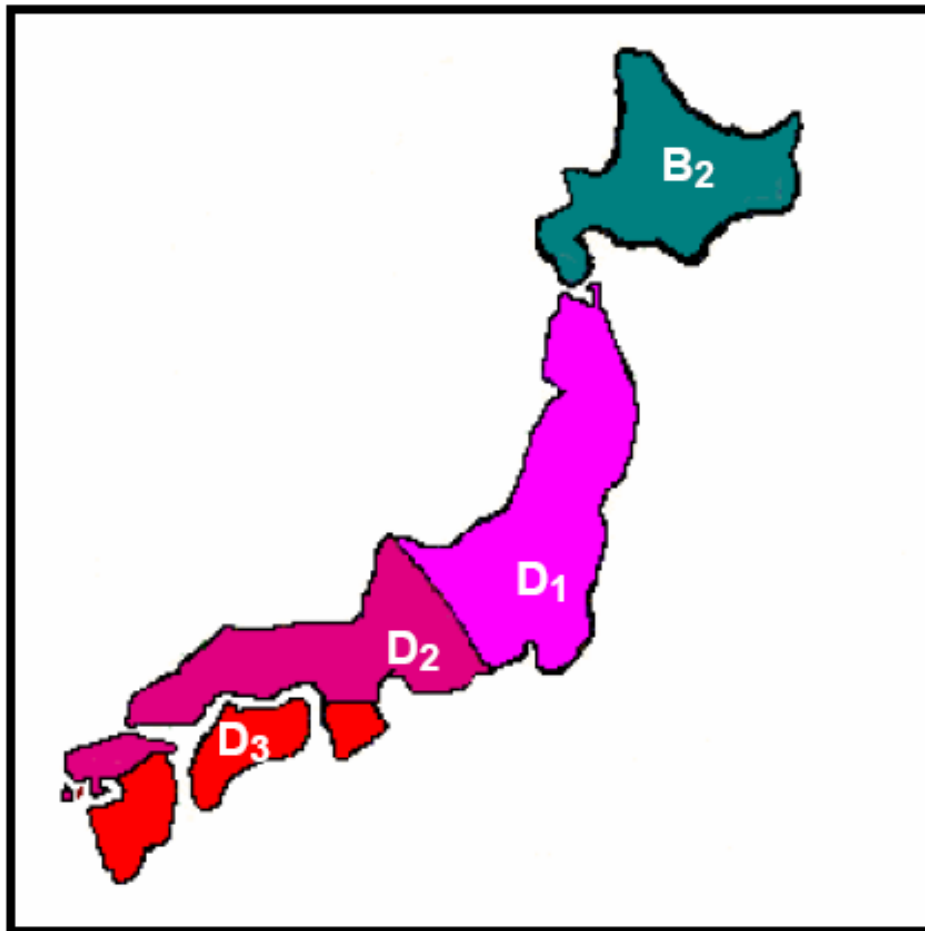
**High-Performance 1.25Gbps 60GHz Radio Link
for MPT, Low Power, unlicensed deployment**



Operating Range	6451eJ
Minimum to Maximum Distance	20 m to 440 m
Millimeter Wave Performance	6451eJ
Frequency	59.0 to 66.0 GHz
RF Injection Power into Antenna	10mW (+10dBm) Max.
Antenna Type	Integral 13-in. parabolic
Antenna Gain	41dBi Minimum
3-dB Beam Width	0.9 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)
DC Power	MIL-C-5015-type connector for 14- to 18-AWG three-conductor power cable
Management	
Installation Tools	Laptop-based GUI software provided
Remote Monitoring	via SNMP V1 or PC Based GUI
Regulatory Compliance	
Spectrum Rules	MPT Type 1 , Item 31-2 , low power, unlicensed system
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)

HXI, Gigalink™ 6651eJ Range Specifications

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	H
Gigalink 6451eJ	<i>Range 20- 440 meters clear air</i>											
	99.90%	420	405	410	400	395	390	375	355	330	405	290
	99.99%	390	360	370	350	340	330	315	295	265	355	200
	99.999%	345	305	320	295	285	270	250	235	215	215	130

Recommended ranges and statistical availabilities based on “Crane” Model calculations using published annual rain rates. Precision terminal alignment of +/- 0.45° is required to achieve predicted reliability at referenced ranges of operation.

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