



Low Latency 70/80 GHz Networks

E-Band Communications 70/80 GHz, with its third generation of Ultra Low Latency radio systems, provides carrier grade performance to Financial networks where latency is critical. The E-Link radio system consists of terminals and digital regenerative repeaters. E-Link radios use QPSK modulation for increased spectrum efficiency providing up to four non-overlapping channels for high density link deployments in metropolitan networks. The E-Link Low Latency Enhanced Architecture Platform (LLEAP) family offers the highest system performance available, due to our exclusive Microware Monolithic Integrated Circuit (MMIC) technology. This industry leading technology provides lowest latency, longest link distances, superior reliability & faster ROI.

Application

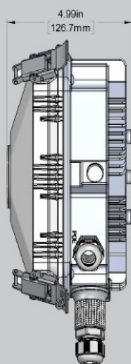
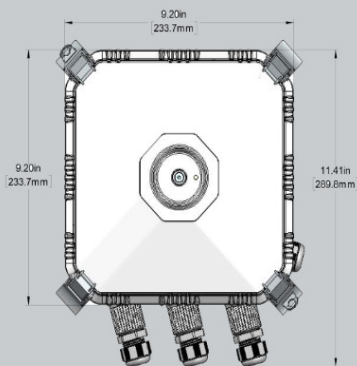
Low Latency Financial Networks
Time Sensitive Data Networks
Remote Storage Access
Disaster Recovery
Redundant Access/Network Diversity
Local Area Network Extension

Features

- Industry's Lowest Latency mmWave System
- Industry's Highest Transmit Power (Longer Distance)
- Spectrum efficient QPSK modulation
- Full duplex wire speed L1 Gigabit Ethernet
- 2+0 RF configuration for 2x1000BaseX transport
- Rapid Field Replaceable unit with direct slip-fit antenna
- Up to four non-overlapping RF channels
- Lightweight, small footprint, all outdoor design
- Transparently handles multi-media jumbo packets
- Rapid port shutdown

E-Link LLEAP Technical Specifications

DIMENSIONS



Have Questions? Contact Us:
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Parameter	Specification	LLEAP	LLEAP-R
Frequency Band	71-76 / 81 - 86 GHz	✓	✓
Air Interface	FDD	✓	✓
RF Channel Bandwidth	1000 MHz	✓	✓
RF Tuning Options	Fixed or Frequency Agile	✓	✓
Transmit Power	+26 dBm (+1/-2dB)	✓	✓
Low Signal Sensitivity (1x10 ⁻⁶ BER)			
ULL Mode	-60 dBm	✓	✓
Minimum Link Range	150m	✓	✓
RF Configuration	1+0, 2+0	✓	✓
Latency			
Through Repeater Low Latency			✓
LLEAP Mode	37ns	✓	
LLEAP-R Mode	13ns		✓
Line Data Rate			
Terminal Input	1.25 Gbps (Ethernet)	✓	
Interface	SFP, 1310nm, LC	✓	✓
	SFP, 850nm, LC	✓	✓
Repeater Data I/O			
Bit Rate	≈1356Mbps	✓	✓
Interface	850nm, LC		✓
PoE Input & DC Direct	58 VDC / 50W	✓	
PoE Input & DC Direct	56 VDC / 54W		✓
Temperature Range	-45°C to +55°C -49°F to 131°F	✓	✓
Weight	9.1 lbs. (4.13 kg)	✓	✓
Dimensions	234mm x 234mm x 127mm 9.2 in x 9.2 in x 5.0 in	✓	✓
Management			
Physical Interface	10/100BaseTX	✓	✓
Craft Interface	Web Based UI	✓	✓
NMS	SNMPv1	✓	✓
Antenna Options			
	1 ft / 30 cm - 45 dBi	✓	✓
	2 ft / 60cm - 51 dBi	✓	✓
	3 ft / 90 cm - 54 dBi	✓	✓
Regulatory			
US	FCC 1.1310 RF MPE Limits	✓	✓
	FCC Part 101.111, Subpart Q	✓	✓
	IEC 60950-1, -22	✓	✓
	IP67	✓	✓

Note: Specifications are typical and subject to change without notice.

Industry's Lowest Latency