

E-Link 1000LR

4G Evolution™ Series

- 70/80 GHz Long & Extended Long Range Point-to-Point links with E-Band's exclusive MMIC technology
- Link availability up to 99.999%
- Highest available E-band Link Budget
- Layer 1 GigE throughput
- Field selectable interface options (E-Band innovation)



Engineered to be the best

The E-Link 1000LR Class solutions provide the highest 70/80 GHz performance available, thanks to our exclusive Microwave Monolithic Integrated Circuit (MMIC) technology. Available with either a 1 foot (0.3m) long range antenna or 2 foot (0.6m) extended long range antenna, these solutions offer higher throughput, longer distances, superior reliability & faster ROI.

Applications

- LTE/4G/WiMAX backhaul
- Fiber Extension
- Remote Storage Access
- Disaster Recovery
- Redundant Access/Network Diversity
- Mobile backhaul
- Local Area Network Extension
- Metropolitan Area Networks (MAN)

Features & performance

- Full duplex wire speed Gigabit Ethernet
- Rapid Field Replaceable unit with direct slip-fit antenna
- Highest available E-Band Link Budget (190dB)
- Field selectable/replaceable GigE interface (patent pending)
- Rapid Tributary Port Shutdown
- Typical link distances exceed 3 mi / 5 km for 99.99% availability
- Low Latency for multimedia applications (<5μs)
- Lightweight, small footprint, all outdoor design
- Supports multiple network architectures including
 - Point-to-Point, Mesh/Ring, Repeater
- Transparently handles multi-media jumbo packets
- Light licensing & interference free operation
- Transparent Support of all Ethernet clock sync techniques
 - Sync-E, IEEE 1588v2, Adaptive Clock Recovery



E-Band Communications is the #1/fastest growing manufacturer of 60, 70 & 80 GHz point-to-point backhaul solutions in the world, with sales more than quadrupling in 2010.



Connecting a digital world.™



System Parameters

Frequency Band 71-76 GHz / 81-86 GHz
 RF Interface FDD
 Modulation DBPSK
 Transmit Power Output +23 dBm
 ATPC Range 0-30 dB
 Low Signal Receiver Threshold (BER @ 1x10⁻⁶) -63 dBm
 Configurations Non-Protected, Hot Standby, Repeater, Mesh
 Latency < 5µs
 Forward Error Correction Reed Solomon

Tributary

Data Rate 1.25 Gbps full duplex (Ethernet)
 Standards Compliance IEEE 802.3z, 802.3ab
 Field Selectable Interface Options
 1000BaseT - Copper RJ-45 (100m)
 1000BaseSX - MM Fiber LC connector (550m)
 1000BaseLX - SM Fiber LC connector (5000m)

Electrical / Environmental

Input Voltage - Power -48 VDC / PoE - 30 W
 Temperature Range -27°F to +131°F / -33°C to +55°C
 Altitude 15000 ft / 4500 m
 Humidity All Weather Outdoor Unit

Management

Physical Interface 10/100BaseTX - Copper RJ-45 (100m)
 Craft Interface Embedded web based server
 EMS SNMPv1

Physical

Weight 8.5 lbs (3.9 kg)
 Dimensions Diameter 9.99 in (25.4 cm) x Height 3.12 in (7.9 cm)
 Antenna 1 ft (0.3 m) / 45 dBi gain or 2 ft (0.6 m) / 51dBi gain
 Fine adjust pole mount fitting 2.3 - 4.5 in. OD masts

Regulatory

US FCC 1.1310 RF MPE limits, FCC Part 101
 IEC 60950-1
 Europe EN 302 217-3

