



## E-Band's Point-to-Point Wireless GigE Products

### Datasheet: E-Link 1000EXR

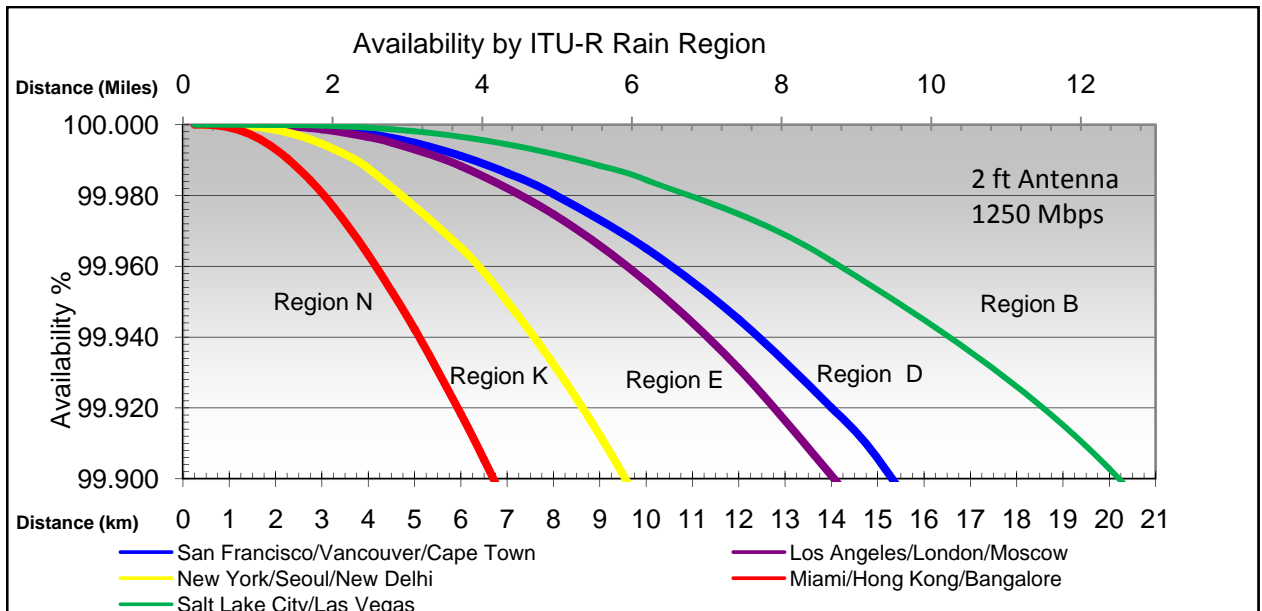
Our newest Wireless Gigabit Ethernet transmission device, the E-Link 1000EXR, is the highest performance gigabit radio in the world. E-Band Communications' advanced technology delivers industry leading output power and receiver sensitivity, which coupled with forward error correction delivers more than 3-times improvement in link budget over all competing millimeter wave products.

### Product Features:

- ➔ Full duplex wire speed Gigabit Ethernet
- ➔ Proven Transparent Support of all Ethernet clock synchronization techniques
  - Sync-E
  - IEEE 1588
  - Adaptive Clock recovery
- ➔ Highest available E-Band Link Budget
- ➔ Typical link distances exceeds 2 miles for 99.99% availability
- ➔ Low Latency for multimedia applications (<5μs)
- ➔ Lightweight, small footprint all outdoor design for ease of installation, maintenance and deployment
- ➔ Interference free operation
- ➔ Light Licensing
- ➔ Simple installation and maintenance using PC or PDA
- ➔ Supports multiple network architectures including:
  - Point-to-Point
  - Mesh or Ring
  - Repeater
- ➔ Rapid Field Replaceable unit with direct slip-fit antenna

### Applications:

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





## E-Band's Point-to-Point Wireless GigE Products

# E-Link 1000EXR

System Parameters	
Frequency Band	71 - 76 GHz / 81 - 86 GHz FDD
RF Interface	FDD
Modulation	DBPSK
Transmit Power Output	+22 dBm
ATPC Range	0-15 dB
Low Signal Receiver Threshold (BER @ 1x10 <sup>-6</sup> )	-63 dBm
Maximum RSL Input	-23 dBm
Configurations	Non-Protected, Hot Standby, Repeater, Mesh, Ring
Latency	<5µs
Forward Error Correction	Reed Solomon
Tributary	
Data Rate	1250 Mbps full duplex (Ethernet)
Standards Compliance	IEEE 802.3z
Interface Options	1000BaseTX – Copper RJ-45 (100m) 1000BaseSX – MM Fiber LC connector (550m) 1000BaseLX – SM Fiber LC connector (5000m)
Electrical / Environmental	
Input Voltage	-48 VDC (-40.5 to -57 VDC) (300m max. with RG-58)
Temperature Range	-33°C to +55°C / -27°F to +131°F
Altitude	15000 ft / 4500 m
Humidity	Outdoor Unit All Weather
Management	
Physical Interface	10/100BaseTX – Copper RJ-45 (100m)
Craft Interface	Embedded web based (HTML) server
EMS	SNMPv1
Physical	
Weight	11.5 lbs (5.2 kg)
Dimensions	Diameter 10.5 in (26.7 cm) Height 5.6 in (14.2 cm)
Antenna	1 ft (0.3 m) / 43.8dB gain or 2 ft (0.6 m) / 51dB gain Fine adjust pole mount fitting 2.3 - 4.5 in. OD
Regulatory	
US	FCC 1.1310 RF MPE limits FCC Part 101 IEC 60950-1 / CSA IP56
Europe	EN 302 217-3

