



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

## Datasheet: E-Link 1000

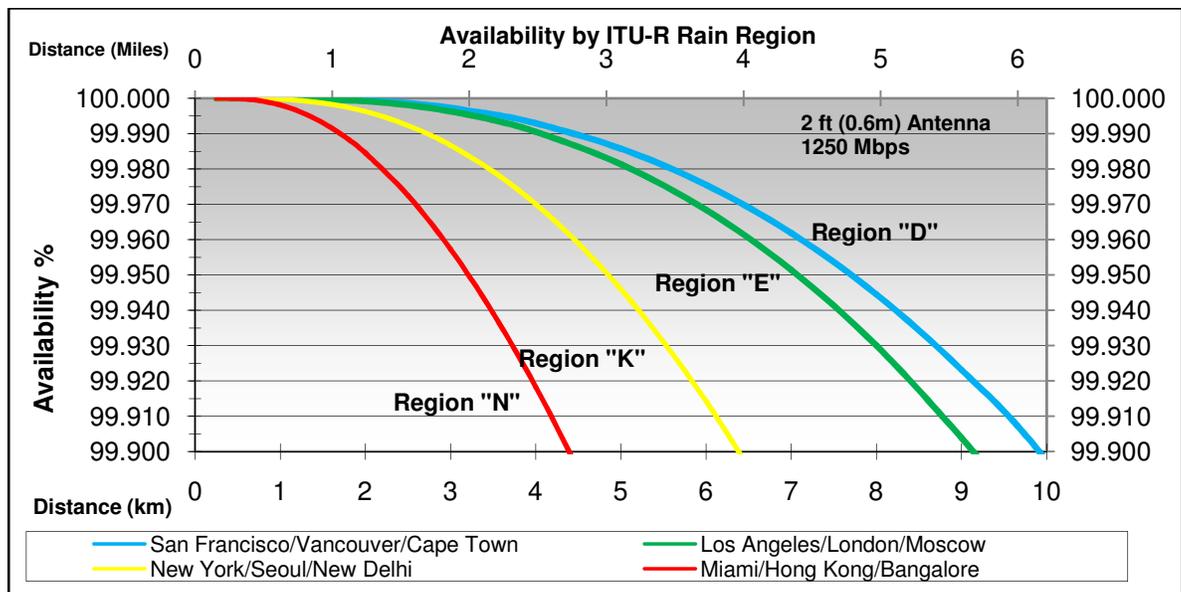
E-Band Communications Corporation (EBCC) founded in late 2003 to develop ultra-high capacity wireless communications systems for the 70/80 GHz *e-band* spectrum utilizing leading-edge RF MMIC technology providing best-in-class link performance. These millimeterwave communication systems provide carrier grade performance for gigabit and multi-gigabit throughputs achieving link distances over several miles. Our products address the requirements of carriers, enterprises, cable, government, and internet service providers building cost-efficient wireless multi-gigabit IP networks. E-Band technology provides solutions for interconnection and backhaul of 4G, WiMAX, mobile networks, distributed antennas systems (DAS) and remote radio heads (RRH), Gigabit Ethernet access network connections, last mile access, fiber backup, and network extension applications.

### Product Features:

- ➔ Full duplex wire speed Gigabit Ethernet
- ➔ Proven Transparent Support of all Ethernet clock synchronization techniques
  - Sync-E
  - IEEE 1588
  - Adaptive Clock recovery
- ➔ 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 (In US \$75 for 10 year license)
- ➔ Simple installation and maintenance using PC or PDA
- ➔ Supports multiple network architectures including: Ring, Point-to-Point, Mesh, Repeater, etc.
- ➔ Rapid Field Replicable unit with direct slip-fit antenna

### Applications:

- ➔ WiMAX/LTE/4G Backhaul
- ➔ DAS/RRH Fronthaul
- ➔ Remote Storage Access
- ➔ Disaster Recovery
- ➔ Redundant Access/Network Diversity
- ➔ Mobile Backhaul
- ➔ Local Area Network Extension
- ➔ Metropolitan Area Networks (MAN)
- ➔ Homeland Security.
- ➔ 2G/3G Cell Site Backhaul





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# E-Link 1000

System Parameters	
Frequency Band	71 - 76 GHz / 81 - 86 GHz FDD
RF Interface	FDD
Modulation	DBPSK
System Gain BER @ 1x10 <sup>-6</sup>	1 ft / 0.3 m antenna - 168 dB 2 ft / 0.6 m antenna - 184 dB
Frequency Source	Synthesizer
Configurations	Non-Protected, Hot Standby, Repeater, Mesh, Ring
Latency	<5μs
Tributary	
Data Rate	1250 Mbps full duplex (Ethernet)
Optional Data Rates	768 Mbps, 1536 Mbps (OBSAI), 1228.8 Mbps (CPRI)
Standards Compliance	IEEE 802.3z
Interface	Fiber, LC connector or Copper, RJ-45
Electrical / Environmental	
Input Voltage	-48 VDC (-40.5 to -57 VDC)
Temperature Range	-33°C to +55°C / -27°F to +131°F
Altitude	15000 ft / 4500 m
Humidity	Outdoor Unit All Weather
Management	
Craft Interface	Embedded web based (HTML) server
EMS	SNMP v1
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) / 43.8 gain or 2 ft (0.6 m) / 51 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	TS 102 254, CE-Mark



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