

E-Link 1000EXR

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 1000EXR offers the highest 70/80 GHz performance available, thanks to our exclusive Microwave Monolithic Integrated Circuit (MMIC) technology. Available with either a 0.3m antenna or 0.6m antenna, these solutions offer higher throughput, longer distances, superior reliability & faster ROI. The 1000EXR is used by leading 3G and 4G carriers and enterprises.

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



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 @ 1×10^{-6})	-63 dBm
Configurations	Non-Protected, Hot Standby, Repeater, Mesh
Latency	<5 μ s
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	-45°C to +60°C
Altitude	4500 m
Humidity	All Weather Outdoor Unit

Management

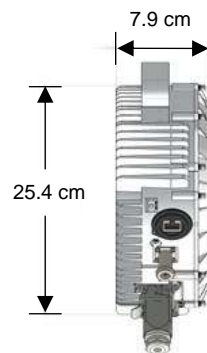
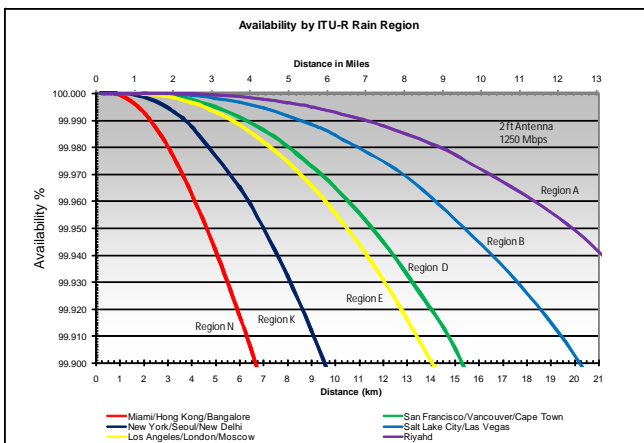
Physical Interface	10/100BaseTX - Copper RJ-45 (100m)
Craft Interface	Embedded web based server
EMS	SNMPv1

Physical

Weight	3.9 kg
Dimensions	Diameter 25.4 cm x Height 7.9 cm
Antenna	0.3m / 45 dBi gain or 0.6 m / 52dBi gain Fine adjust pole mount fitting 58 – 114mm OD masts

Regulatory

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



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