



E-LINK 1000EXR

DATASHEET

Our newest Wireless Gigabit Ethernet transmission device, the E-Link 1000EXR, is the highest performance 70/80 GHz gigabit radio in the world. Aviat Networks 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.



KEY FEATURES

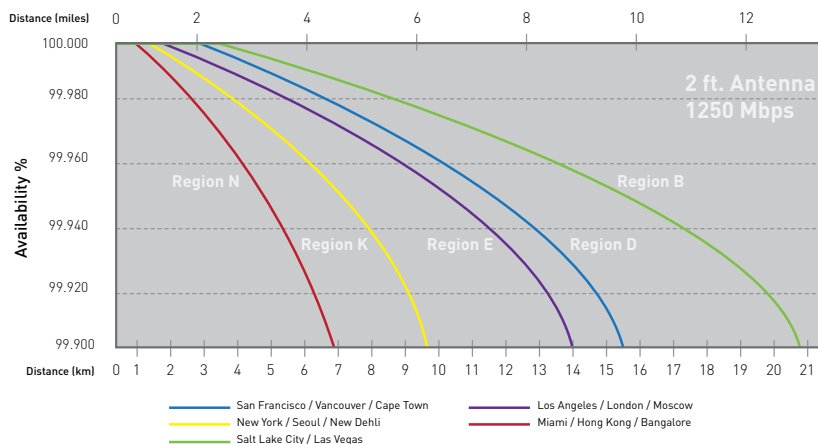
- Full duplex wire speed Gigabit Ethernet (Layer 1)
- Highest available E-Band Link Budget
- Proven Transparent Support of all Ethernet clock synchronization techniques
 - Sync-E
 - IEEE 1588
 - Adaptive Clock recovery
- Typical link distances exceeds 2 miles for 99.99% availability
- Low Latency for multimedia applications (<5µs)
- Handles multimedia jumbo packets transparently
- Lightweight, small footprint all outdoor design for ease of installation, maintenance and deployment
- Rapid Field Replaceable unit with direct slip-fit antenna
- 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

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.

Availability by ITU-R Rain Region



SPECIFICATIONS

SYSTEM PARAMETERS	
Frequency Band	71 - 76 GHz / 81 - 86 GHz
RF Interface	FDD
Modulation	DBPSK
Transmit Power Output	+22 dBm
ATPC Range	0-15 dB
Low Signal Receiver Threshold (BER @ 1x10 ⁻⁴)	-64 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	11.2 lbs (5.1 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
Europe	EN 302 217-3, TS 102 254, CE mark

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