# LIGHTPOINTE

## AireLink 80 1.25 Gig & 2.50 Gig



## Next Generation 70 & 80 GHz Point-to-Point Radios

LightPointe's AireLink wireless millimeter wave radios are designed for enterprise building-to-building/campus connectivity, ISPs, security camera backhaul networks, and mobile wireless service providers seeking fiber like multi-gigabit backhaul capacity. These highly affordable advanced backhaul radios can be equipped with four high gain parabolic antennas of different sizes for shorter and longer distance applications. AireLink radios are available with built-in Bluetooth street level remote link/performance monitoring, a unique LightPointe feature, and include optional real-time and full line speed AES 256 encryption.

And thanks to LightPointe's innovative and flexible software license upgrade feature, the customer has the option to customize feature sets at time of purchase or later as the needs of their particular network evolve. This makes the AireLink 80 a safe, long-term future proof investment.

### **Enterprise & Carrier Applications**

- Fiber-like long distance building connectivity for schools, businesses, government buildings and hospitals—without trenching/installing fiber or the recurring costs of leased-line alternatives.
- 4G/5G LTE macro and small cell mobile backhaul.
- Disaster recovery/emergency communications restoration.
- Digital video and video surveillance connectivity.
- Remote storage access.
- Local Area Network extension.
- Military theater of operations/base connectivity.

### **Advanced Features**

- High speed full-duplex up to 2.5 Gbps with low latency (<40 µs).
- Flexible connections, PoE, & helpful LED indicators.
- Data transmission using industry leading 9 levels of Adaptive Coding & Modulation (ACM).
- "Future proof" anytime remote feature upgrades.
- Real-time full Line Speed FIPS AES 256 encryption option.
- Fully Integrated street-level Bluetooth<sup>™</sup> link monitoring app.
- Choice of fiber optic or copper interfaces.
- Unparalleled ease of installation, alignment, & operation.
- Transmission power control for short distance deployments.
- Redundant power supplies.



USA manufacturing efficiency & value combined with precision German engineering

• Compact & aesthetic design for sensitive installations.



#### **ODU (Outdoor Unit)**

Model Frequency range Data Throughput Channel Bandwidths Link Adaptation/Modulation **Transmission Power** System Latency Max. Frame Size Data Network Interface Ethernet Protocol Forward Error Correction Radio Management Management Interface Encryption **RSSI** Alignment Port Performance Recording Bluetooth<sup>™</sup> Monitoring

#### **Power/Environment**

Voltage Power Consumption Connector IP Rating Operational Temperature Humidity

Antennas

Antenna Type Antenna Size Antenna Gain Beam Width Polarization

### **Physical Dimensions**

Outdoor Unit Size w/o Antenna AireLink 80 SX AireLink 80 MX AireLink 80 LX AireLink 80 EX 71-76/81-86 GHz (E-band) 2 Gbps aggregated (1 Gbps Full duplex) 250\*...2000 MHz, ETSI compliant 250 MHz frequency grid 9 level Hitless Automatic Coding & Modulation (ACM) / 64QAM\*,16QAM, QPSK, BPSK +14 dBm (max.) < 40 µs + (distance in meters/300) Jumbo frames up to 10K RJ-45 (100/1000 Base TX), MM/SM Fiber SFP (1000Base-SX/LX) Laver Two Transparent Ethernet, Flow Control 802.3x LDPC; Reed Solomon Web based, Telnet Command Interface/CLI, SNMP v1/2c, RS232 micro USB, Loopback op RJ-45 (10/100 Base TX), RS232 Console port (micro USB) Optional AES 256 (FIPS compliant) External Ip67 connector On board data collect/TFTP upload Optional street-level monitoring via smartphone app and internal Bluetooth antenna

(36...57) Vdc; Reverse polarization protection; Optional back-to-back power redundancy 32 Watts max IP-66 -35°C to +60°C (-31 F to +140 F) 95%, non condensing

Cassegrain (integrated)	Cassegrain (external)	Cassegrain (external)	Cassegrain (external)
8" (20 cm)**	1' (30cm)	2' (60cm)	3' (90cm)
 41 dBi	45 dBi	51 dBi	54 dBi
1.3°	1.0°	0.5°	0.3°
Horizontal/Vertical			

220x220x70mm (enclosure w/o ant & mount bracket)

\* Future software update. \*\*8" antenna can only be used in ETSI countries. Note: Distance estimates are subject to location and availability requirements. Note: "Tandem"/dual radio 2.5 Gbps systems are not shown.



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