

## AireBeam™ G80-LX & MX

State-of-the-art millimeter wave wireless bridges for enterprise and carrier applications



**Point-to-Point Connectivity**  
Up to 7 miles (11.5 km)  
depending on location  
and desired availability




## 70/80GHz Point-to-Point Enterprise & Carrier Backhaul Solution

LightPointe's new AireBeam™ Series is ideal for multi-mile long distance Gigabit Ethernet transmission, and are now designed and manufactured at our headquarters in San Diego, California. These state-of-the-art backhaul solutions can be utilized in advanced networks, or simple point-to-point connectivity between buildings or towers. With latency 25% lower than our nearest competitor's flagship model and 55% less power consumption, the AireBeam Series is available in long distance (G80-LX) and medium distance (G80-MX) configurations.

Whether you are connecting two office buildings, school campuses or apartment complexes across town—or building a Metropolitan Area Network backhaul ring around an entire city—LightPointe's advanced millimeter wave solutions are built for easy installation (PoE) and modular simplicity for maximum reliability and performance.

### 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/LTE mobile backhaul. 
- Disaster recovery/emergency communications restoration.
- Digital video and video surveillance connectivity.
- Remote storage access.
- Mesh and Multipoint infrastructure.
- Local Area Network extension.
- Military theater of operations and base connectivity.
- Homeland security.

### Advanced Next Generation Radio Features

- High speed full-duplex 1.25 Gbps/Gigabit connectivity.
- Choice of RJ45 copper, MM or SM fiber connectors for each side of link.
- Ultra high gain 1ft/.3m & 2ft/.6m field-changeable antennas.
- Power-over-Ethernet for easy installation (PoE).
- Industry exclusive link optimizer/indicators.
- Industry's lowest energy consumption.
- Easy-mount polarization adjustment.
- Lightweight all-weather enclosure.
- Carrier grade SNMPv.2.
- High system gain and low latency.
- Certified by an independent Notified Body for worldwide deployments.

## Product Specification

### Description

Frequency of Operation  
Transmission Power  
Dimensions w/o Antenna  
Antenna Size  
Antenna Gain  
Antenna Polarization  
Polarization adjustment  
Antenna HPBW  
Unit Weight  
Operating Voltage  
Operating Temperature  
Humidity Range  
Environmental/IP Rating  
Power Consumption  
Mounting Options  
Status-LEDs  
Alignment tools  
Range

### AireBeam™ G80-MX (medium range)

Outdoor MMW Radio transceiver with integrated high gain antenna including mounting/alignment assembly and power supply  
74.875/84.875 GHz (FDD), digitally modulated  
100 mW (+20dBm)  
(57L x 33W x 36H) cm  
30 cm 60 cm  
45 dBi  
Horizontal/Vertical  
Field adjustable via ODU rotation  
0.7°  
8.2 kg  
110/230 ac; direct 48 Vdc (fully outdoor rated) or Power over Ethernet (PoE)  
-35°C to +60°C (-31°F to 140°F)  
Up to 95% (Non-Condensing)  
IP66  
20W max  
Pole mount alignment bracket w/coarse & fine-alignment (60-110 mm pole diameters)  
Power, TX Data, LOS, Overload, Data In, Data Out  
Antenna mounted Site Alignment spotting tool, RSSI LED bar graph  
Up to 7 miles/11.5 km or more, depending upon rain zone and availability required

### AireBeam G80-LX (long range)

(70 x 51 x 66) cm

51 dBi

0.5°

11.1 kg

## Networking

Protocol  
OSI Layer  
Latency  
Ethernet Interfaces  
Data Rate  
Physical Connections  
Management Interface  
Management Access  
Alarm Reporting

802.3z (Gigabit Ethernet)  
Physical layer 2  
< 40 microseconds  
100/1000Base-TX on the primary data port; 1000Base-SX/LX and 1000Base-TX on the SFP interface  
Gigabit Ethernet, Full Duplex  
Fully outdoor rated IP67 network connection (No need to open radio enclosure)  
User selectable in-band management (VLAN support) or via separate out-of-band Ethernet connection  
Integrated Ethernet based Web Browser GUI, SNMP v1/2c (optional v3), RMON, Via SNMP traps, TELNET and separate RS232 terminal connection

## REGULATORY

United States:  
International:

FCC 47 CFR Part 15 Class B, FCC CFR 47 Part 101; IC ICES-003 Class A  
CE MARK  
EN 302 217-3 v1.3.1 (2009-7); EN 302 217-2-2 v1.4.1(2010-07);  
EN 302 217-4-2 (2010-01); EN 301 489-04 V1.4.1 (2009-05); EN 61000-3; EN 61000-4  
EN 60950-1:2006 + A1:2010

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**LIGHTPOINTE™**  
WIRELESS