



- 100 Mbps license-free point-to-point wireless bridges for businesses, government agencies, carriers, hospitals & schools.
- Extended range (up to 1,000 meters).
- 4th generation Free Space Optics technology for unparalleled security & low latency.
- Aesthetic, compact design for sensitive installations.

4th Generation Free Space Optics Wireless Bridges

The AireLite™ Series includes LightPointe's best selling point-to-point solutions, providing the industry's highest level of value/ROI and robust performance. These bridges are one of the reasons LightPointe is the #1 manufacturer of Free Space Optics since 1998. The AireLite 100 (distances up to 700 meters) and 100E (up to 1000 meters) are easy to install and extremely reliable in most regions, even in rain and snow. And if your organization is concerned about wireless data security, optical transmission provides the only true Point-to-Point wireless data transmission, and is impossible to successfully intercept.

The AireLite 100 and 100E incorporate LightPointe's 4th generation FSO technology and, best of all, are license-free worldwide and immune to RF interference and congestion. These advanced wireless Ethernet bridges have been successfully deployed in hospital, school and business campuses, handling data and digital video transmission.

Applications

- Campus/building connectivity for schools, businesses, government buildings and hospitals.
- 3G/4G Small Cells/Picocells for mobile backhaul.
- Disaster recovery/emergency communications restoration.
- Digital video, HDTV and surveillance connectivity.
- Remote storage access.
- Temporary connections for special events.
- Mesh and Multipoint infrastructure.
- Local Area Network extension.
- Military theater of operations and base connectivity.
- Homeland security.

Advanced 4th Generation FSO Features

- Cost effective high speed full-duplex 100 Mbps connectivity up to 1000 meters (@17dB/km).
- License-free worldwide. No initial or recurring regulatory fees or delays, no leased lines and no RF interference.
- Pin-point optical beam can't be successfully intercepted and is immune to RF interference/congestion.
- Easy installation via Power over Ethernet (does not require special electrical connections).
- Green technology: Less than 20W power consumption and no RF radiation.
- Web-browser-based and SNMP management/alerts.
- Latency: 50 microseconds or less.
- Intuitive AireManager™ Web interface allows links to be configured and monitored from a network computer.

AIRELITE 100 & AIRELITE 100E SYSTEM SPECIFICATIONS

Description	Fixed Optics System
Receiver/Transmitter(s)	One transmitter, one receiver
Optical Transmitter	VCSEL
Free-Space Wavelength	850 nm
Optical Receiver	Si APD
Distance (@17 dB/km)	AireLite 100: up to 700m; AireLite 100E: up to 1000m
Receive Power Indicator	10-level bar graph
Dimensions (WxHxL)	215 x 200 x 400 mm (8.5 x 7.9x 15.75 in)
Unit Weight	1 FSO unit/link head: 9.9 lbs (4.5kg)
Shipping Weight/Dimensions	Box A: 2 FSO units/link heads: 23 lbs (11kg); 30"(.762m) x 23"(.584m) x 12"(.304m) Box B: 2 Mounts, Pan/Tilt, PoE injectors: 46 lbs (21kg); 33"(.838m) x 17"(.431m) x 12"(.304m)
Operating Voltage	Passive PoE injector (4,5+; 7,8 -) or direct +48 Vdc
Alignment System	Heavy duty Pan/Tilt alignment bracket
Operating Temperature	-30 C to 60 C (-22 F to 140 F)
Humidity Range	Up to 95% non-condensing
Power Consumption Max	20W
Built-In Alignment Telescope	Yes
Built-In Defroster	Yes

LAN NETWORKING INTERFACES

Protocol/Data Rate	100-Base-TX Ethernet, auto full-duplex 100Mbps
Data Connector	Copper RJ-45
Management Connector	Copper RJ-45
Terminal Connector	RJ-12
Others	Link Pass Through enable/disable

REGULATORY

EMC	Optical Wireless: FCC PART 15, CE Mark RF: FCC Part 15.247, IC RS210, CE MARK
Laser Safety	Eyesafe Class 1M laser product (IEC/EN 60825-1/A2)

