LIGHTPOINTE
WIRELESS

AireLite™ G

- License-free point-to-point wireless bridge for businesses, government agencies, 4G carriers, hospitals & schools.
- 4th generation Free Space Optics technology for unparalleled security, low latency & Gigabit Ethernet throughput.
- Aesthetic, compact design for sensitive installations.
- Our best selling FSO bridge, proven worldwide.

4th Generation Free Space Optics Wireless Bridge

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 G is easy to install and has a track record of excellent reliability — even in very challenging climate environments. And if your organization is concerned about wireless data security, optical transmission systems are considered the most secure point-to-point communications solutions available and are virtually impossible to intercept.

The AireLite G incorporates LightPointe's 4th generation GigE FSO technology and, best of all, is license-free worldwide and immune to RF interference and congestion. This advanced wireless Ethernet bridge has 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.

- 4G/LTE Small Cells/Picocells for mobile backhaul.

- Disaster recovery/emergency communications restoration.

- Digital video and video 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

- High speed full-duplex 1.25 Gbps/Gigabit connectivity up to 600 meters (@17 dB/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 (Power over Ethernet).

- Green technology: Less than 20W power consumption and no RF radiation.

- Standard copper or optional fiber network interfaces.

- Web-browser-based and SNMP management/alarms.

- Latency less than 50 microseconds.

- Intuitive AireManager™ Web interface allows links to be configured and monitored from a network computer.

AIRELITE G 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 (@17dB/km)	Up to 600m
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	4.5 kg (9.9 lbs)
Unit Shipping Weight	
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	802.3z Ethernet, 1.25 Gbps (GigE/GbE)
Physical LAN Network Interface	Standard SFP interface for 1000Base-SX/LX (fiber), or 1000 RJ-45 (copper)
VLAN Ethernet Support	Up to 1000 Mbps, full-duplex, VLAN/802.1Q pass-through support
Physical Mgt. Interface	Inband via Ethernet connection or outband via separate 10/100 RJ-45 copper port
Management System	Integrated Ethernet based Web Browser GUI, SNMP v1/2c (optional v3), RMON, Alarm Reporting via SNMP traps, On-board History Traffic Counter Log, TELNET

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)