

# FLIGHTLITE™ G

## APPLICATION

The FlightLite G is the foundation of LightPointe's highest bandwidth Enterprise single-beam, point-to-point Optical Wireless solutions. Proven on seven continents, it is ideal for LAN-to-LAN backbone connectivity without the need for time-consuming fiber trenching or costly recurring leased lines. This Optical Wireless product delivers Gigabit Ethernet throughput and provides an attractive wireless bridging solution at significantly higher data rates than competing unlicensed RF alternatives.

## KEY FEATURES

- Fiber Interface – Standard SC connectors easily integrate with wired fiber-optic cable.
- Full Line Speeds – Gigabit Ethernet is considerably faster than unlicensed RF alternatives.
- Immune to RF Interference – All LightPointe Optical Wireless solutions are free from radio frequency interference and spectrum saturation issues.
- Lightweight, Compact Design – At 4.5kg (9.9 lbs), the FlightLite G is lightweight, powerful and simple to install.
- Robust Product Housing – Weatherized, rugged and designed for outdoor installations in environments of -30°C to 60°C (-22°F to 140°F); heat shields are also available for hotter climates.
- Lens Cover Defroster – The FlightLite G includes an internal heating element for low-temperature climates and a lens cover defroster – among the only products in its class to offer this additional feature for cold, icy winter conditions.
- Class 1M – All LightPointe products are rated Class 1M, the international standard for eye-safety.

## UNIT SPECIFICATIONS

Description	Fixed Optics System with Manual Gain Control
Receiver/Transmitter(s)	One transmitter, one receiver
Dimensions (WxHxL)	215 x 200 x 400 mm (8.5 x 7.9 x 15.75 in)
Unit Weight	4.5 kg (9.9 lbs)
Operating Voltage	90 to 240 V (50/60 Hz) or +/- 48 V DC
Operating Temperature	-25 C to 60 C (-13 F to 140 F)
Humidity Range	Up to 95% non-condensing
Power Consumption Max	20W
Immune to EMI & RF Interference	Yes
Built-In Alignment Telescope	Yes
Built-In Defroster	Yes; auto activation at 15 C (59 F)
SNMP Management	Optional



## FREE SPACE SPECIFICATIONS

Bit Rate	1.25Gbps
Free-Space Optical Transmitter	VCSEL
Free-Space Wavelength	850 nm
Optical Receiver	Si APD
Receive Power Indicator	10-level bar graph
Status Indicator (LED)	Power, TX Data, LOS, Overload, Data In, Data Out

## MULTIMODE FIBER INTERFACE

Protocol	Gigabit Ethernet
System Interface	SC Connector
Interface Wavelength	780 to 950 nm
Optical Receive Power	0 to -17 dBm
Optical Transmit Power	-4 to -9.5 dBm

## SINGLEMODE FIBER INTERFACE

Protocol	Gigabit Ethernet
System Interface	SC Connector
Interface Wavelength	1260 to 1360 nm
Optical Receive Power	-3 to -20 dBm
Optical Transmit Power	-3 to -9.5 dBm

## CLASSIFICATION

IEC/EN 69825-1/A2	Class 1M
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## RECOMMENDED OPERATIONAL RANGE

**FlightLite™ G**

500 Meters  
(Approximately 1,700 Feet)



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