



# FLIGHTLITE™ G

## OVERVIEW

LightPointe's Optical Wireless products are field-proven on all seven continents and are ideally suited for LAN-to-LAN backbone connectivity without the need for time-consuming fiber trenching or costly recurring leased lines. The FlightLite™ G is the flagship of LightPointe's highest bandwidth Enterprise single-beam, point-to-point Optical Wireless solutions. The FlightLite™ G product delivers low latency, full-duplex Gigabit Ethernet throughput and provides an attractive wireless bridging solution at significantly higher data rates than competing unlicensed RF alternatives.

## FEATURES AND BENEFITS

**Fiber Interface** – standard SC connectors easily integrate with wired fiber-optic cable.

**Operating Distance** – recommended operational distance up to 500 meters.

**Full Line Speed** – full-duplex Gigabit Ethernet is considerably faster than common unlicensed RF alternatives.

**Immune to RF Interference** – all LightPointe Optical Wireless products 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); sunshields are available for operation in hot, desert-like climate zones.

**Lens Cover Defroster** – The FlightLite™ G includes an internal heating element for low-temperature climates and a lens cover defroster – among the only product in its class to offer this additional feature for cold, icy winter conditions.

**Class 1M** – all LightPointe™ Optical wireless products are rated Laser Class 1M according to the internationally recognized IEC/EN 60825-1/A2 laser eye-safety standard.



Data Sheet

## OUTDOOR UNIT

Description	Fixed Optics System with Manual Gain Control
Receiver/Transmitter(s)	One transmitter, one receiver
Dimensions (W x H x L)	215 x 200 x 400 mm (8.5 x 7.9 x 15.75 in)
Unit Weight	4.5 kg (9.9 lbs)
Unit Shipping Weight	16.4 kg (36 lbs) including mount, alignment bracket, power supply
Operating Voltage	90 to 240 V (50/60 Hz) or +/- 48 V DC
Operating Temperature	-30 C to 60 C (-22 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
Network Management	SNMP

## FREE SPACE

Bit Rate	1.25Gbps, full-duplex
Recommended Operational Range	500 meters
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	802.3z, Gigabit Ethernet
System Interface	SC Connector, duplex
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	802.3z, Gigabit Ethernet
System Interface	SC Connector, duplex
Interface Wavelength	1260 to 1360 nm
Optical Receive Power	-3 to -20 dBm
Optical Transmit Power	-3 to -9.5 dBm

## REGULATORY

EMC	FCC PART 15, CE Mark
Laser Safety	Class 1M laser product (IEC/EN 69825-1/A2)

