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 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)

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