LIGHTPOINTE ®

FLIGHTLITE™ 100 / FLIGHTLITE™ 100E

APPLICATION

The FlightLite 100 and FlightLite 100E are LightPointe's Enterprise Fast Ethernet solutions. Built on the heritage and success of our original FlightLite product line, the FlightLite 100 and FlightLite 100E are ideal for Enterprise environments and building-to-building connectivity.

For customers who currently lease copper access between buildings or who are considering costly fiber-optic cable, the LightPointe solutions offer significantly higher bandwidth with full-duplex speeds and a welcome end to recurring monthly fees. The FlightLite 100 and 100E provide attractive wireless bridging solutions at higher data rates than competing unlicensed RF alternatives.

KEY FEATURES

- Copper Interface – easily integrates into existing LANs. "Plug and Play" install with CAT5 cable.

- Power over Ethernet – product installation simplified with no need for costly electrical wiring runs or new outlets.

- Fast Ethernet Speed – full-duplex 100Mbps speed is considerably faster than 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 100 and FlightLite 100E are 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 – FlightLite 100 and FlightLite 100E include an internal heating element for low-temperature climates and a lens cover defroster – among the only products in their class to offer the additional features for cold, icy winter conditions.

- Class 1M – all LightPointe products are rated Class 1M, the international standard for eye-safety.

Data Sheet

UNIT SPECIFICATIONS

FlightLite 100 & 100E

Description	Fixed Optics System
Receiver/Transmitter(s)	One transmitter, one receiver
Dimensions (WxHxL)	215x200x400 mm (8.5x7.9x15.75 in)
Unit Weight	4.5 kg (9.9 lbs)
Operating Voltage	12/48V (PoE-injector)
Operating Temperature	-25 C to 60 C (-13 F to 140 F)
Humidity Range	Up to 95% non-condensing
Power Consumption Max	15W
Immune to EMI & RF Interference	Yes
Built-In Alignment Telescope	Yes
Built-In Defroster	Yes; auto activation at 15 C (59 F)

FREE SPACE SPECIFICATIONS

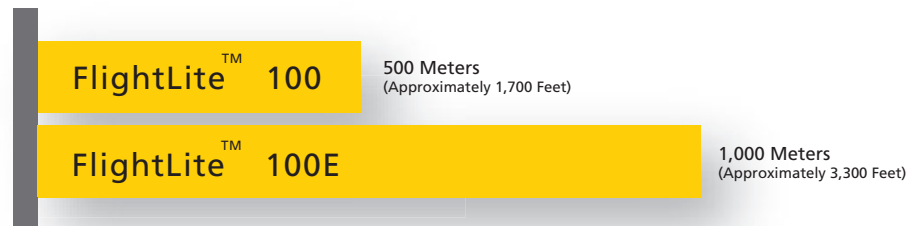|	
Bit Rate	10Mbps to 100Mbps, full-duplex
Free-Space Optical Transmitter	VCSEL
Free-Space Wavelength	850 nm
Optical Receiver	Si APD
Receive Power Indicator	10-level bar graph
Status Indicator (LED)	Power, TX Data, LOS, Overload, Data In, Data Out

INTERFACE

Protocol	10/100-Base-TX Ethernet/Fast Ethernet
Power Over Ethernet Specification	802.3af
Connector	Copper RJ-45

CLASSIFICATION

IEC/EN 60825-1/A2	Class 1M

RECOMMENDED OPERATIONAL RANGES

FlightLite™ 100 — 500 Meters (Approximately 1,700 Feet)

FlightLite™ 100E — 1,000 Meters (Approximately 3,300 Feet)

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