



FLIGHTLITE™ 100 & 100E

OVERVIEW

The FlightLite 100 and FlightLite 100E are LightPointe's mid-level 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.

FEATURES AND BENEFITS

- 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); additional sunshields 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 feature for cold, icy winter conditions.
- Class 1M – all LightPointe products are rated Class 1M, the international standard for eye-safety.



OUTDOOR UNIT

Description	Fixed Optics System
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)
Shipping Weight	17.0 kg (37.5 lbs) x 2 linkheads
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)

FLIGHTLITE 100 & 100E

FREE SPACE

Bit Rate 10Mbps to 100Mbps, full-duplex

Operational Ranges

	Recommended Distance	Maximum Distance
FL100E	Up to 1,700 m	2,900 m ²
FL100	Up to 500 m	1,600 m ²

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
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²Operational Range depends on environmental conditions. Maximum distances listed are in ideal, clear weather conditions



Corporate Office
10140 Barnes Canyon Road
San Diego, California 92121
Tel: +1.858.643.5200
Fax: +1.858.643.5201