



# FLIGHTLITE™ 100 & 100E

## OVERVIEW

The FlightLite 100 and FlightLite 100E are Enterprise Fast Ethernet solutions. Built on the heritage and success of our FlightLite product line, the FlightLite 100 and FlightLite 100E are ideal for price-sensitive installations and markets. For customers who currently lease copper access between buildings, the solutions offer significantly higher bandwidth and a welcome end to recurring monthly charges. The FlightLite 100 and 100E provide excellent bridging alternatives at cost-per-bit price points unmatched by 802.11b, 802.11a, and 802.11g solutions.

## FEATURES AND BENEFITS

The FlightLite 100 and FlightLite 100E incorporate product features that deliver a lower total cost of ownership, while providing the quality and performance our customers have come to expect from Optical Wireless solutions.

- Copper Interface – Easily integrates into existing LANs. “Plug and Play” install with CAT5 cable.
- PoE Supply – With Power Over Ethernet (PoE), product installation is now even easier than before. There are no electrical outlet requirements, reducing the time and costs of installation because no electrician is necessary to lay wiring.
- Distance Ratings – Up to 1.6 kilometers (FlightLite 100) and up to 2.9 kilometers (FlightLite 100E). Ideal for Enterprise connectivity, especially corporate campuses.
- Fast Ethernet Speed – Full-duplex bandwidth. True 100-megabit throughput.
- Ideal for Voice-over-IP applications.
- Immune to RF Interference – Optical wireless products including the FlightLite 100 and FlightLite 100E are immune to radio frequency interference and licensing or planning challenges.
- Lightweight, Compact Design – At 4.5 kg (9.9 lbs), the FlightLite 100 and FlightLite 100E continue to set the Optical Wireless standard for ease of installation by keeping the product small yet powerful.
- Robust Product Housing – Weatherproof and designed for outdoor installations with temperatures of -30 C to 65 C (-22 F to 149 F).
- Lens Cover Defroster – FlightLite 100 includes both an internal heating element for low-temperature climates and a lens cover defroster—the only product in its class to offer the additional feature for the coldest icy, winter conditions.
- Class 1M – All 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	-30 C to 65 C (-22 F to 149 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 10 Mbps to 100 Mbps, full-duplex

Operational Ranges  
(At 5dB System Fade Margin)

	Light Haze Light Rain	Thin Fog Heavy Rain	Moderate Fog Monsoon
	-3 dB	-10dB	-30dB
FL100	1.6 km	1.0 km	500 m
FL100E	2.9 km	1.5 km	700 m

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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