FLIGHTEXPRESS™ 100

OVERVIEW

FlightExpress 100, newest Optical Wireless product, provides customers with an entry-level, 100Mbps full-duplex, point-to-point solution for high-bandwidth bridging in Enterprise and multi-building campus environments.

With many of the same features as industry leading FlightLite product, the FlightExpress 100 is a high-performance and cost-effective outdoor wireless solution for connecting buildings at distances up to 200 meters. The FlightExpress 100 takes all the research and product development we have devoted to our full-featured Optical Wireless solutions and delivers an attractive and simple alternative to short fiber-optic cable runs and lower-speed RF products. The FlightExpress 100 sets the standard for Fast Ethernet connectivity at the most aggressive price point.

FEATURES AND BENEFITS

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

- Power over Ethernet – simplifies installation by eliminating the need for cumbersome and costly electrical wire runs.

- Distance Ratings – can connect buildings and remote locations up to 200 meters.

- Fast Ethernet Speed – true 100Mbps full-duplex speeds are significantly faster than RF alternatives.

- Immune to RF Interference – all Optical Wireless products are immune to radio frequency interference and saturation issues.

- Lightweight, Compact Design – at 4.0kg (8.8 lbs), FlightExpress 100 is small and lightweight, yet powerful and easy-to-install.

- Robust Product Housing – weatherproof and designed for outdoor installation with temperatures of -30°C to 60°C (-22°F to 140°F); Sunshields are also available for climates with higher temperatures.

- Lens Cover Defroster – FlightExpress 100 includes both an internal heating element for low temperature climates and a lens cover defroster making it ideal for cold, icy winter conditions.

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

LIGHTPOINTE

Data Sheet

OUTDOOR UNIT — FLIGHTEXPRESS 100

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	4.0 kg (8.8 lbs)
Shipping Weight	17.0 kg (37.5 lbs) x 2 linkheads
Operating Voltage	12/48V (PoE-injector)
Operating Temperature	-30 C to 60 C (-22 F to 140 F)[1]
Humidity Range	Up to 95% non-condensing
Power Consumption Max	15W
Immune to EMI & RF Interference	Yes
Built-In Defroster	Yes; auto activation at 15 C (59 F)

FREE SPACE

Bit Rate	10Mbps to 100Mbps, full-duplex
Operational Range	Up to 200 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

[1] Sunshield available for high-temperature environments
[2] Operational Range depends on environmental conditions. Maximum distances listed are in ideal, clear weather conditions

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