FlightLite™ 155 & G

OVERVIEW

The most compact members of the Optical Wireless family, the FlightLite 155 and FlightLite G models weigh just 4.5 kilograms (9.9 pounds) and are the most popular choices for Enterprise IT professionals worldwide. Proven on seven continents, the FlightLite 155 and FlightLite G are ideal for flexible LAN-to-LAN connectivity without time-consuming and expensive trenching of fiber-optic cable. research and development work in free-space optics (FSO) technology has delivered the Enterprise's most trusted and customer deployed Optical Wireless products. The FlightLite 155 and the FlightLite G provide true optical throughput at entry-level pricing and operational distances starting at 300 meters for license-free Gigabit Ethernet between buildings.

FEATURES AND BENEFITS

The FlightLite 155 and FlightLite G 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.

- Fiber Interface – Standard SC connectors easily integrate with wired fiber-optic cable

- Distance Ratings – Up to 2.9 kilometers (FlightLite 155) and 1.3 kilometers (FlightLite G). Ideal for Enterprise connectivity, especially corporate campuses.

- Full-duplex Throughput – 155 Mbps for FlightLite 155, and Gigabit Ethernet for FlightLite G.

- Ideal for high-bandwidth applications, such as VoIP, digital imaging, video services.

- Immune to RF Interference – Optical Wireless products are immune to radio frequency interference and licensing or planning challenges.

- Lightweight, Compact Design – At 4.5 kg (9.9 lbs), the FlightLite 155 and FlightLite G 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 -25 C to 60 C (-13 F to 140 F).

- Lens Cover Defroster – All FlightLite products include an internal heating element for low-temperature climates and a lens cover defroster—the only products in their 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.

Data Sheet

OUTDOOR UNIT

Description	Fixed Optics System with Manual Gain Control
Receiver/Transmitter(s)	FL155, FL-G: 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	16.4 kg (36 lbs) x 2 linkheads
Operating Voltage	90 to 240 V (50/60 Hz) or +/- 48 V DC
Operating Temperature	-25 C to 60 C (-13 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	FL155 = 1.5 Mbps to 155 Mbps
	FL-G = 1.25 Gbps

Operational Ranges
(At 5dB System Fade Margin)

	Light Haze Light Rain	Thin Fog Heavy Rain	Moderate Fog Monsoon
	-3 dB	-10dB	-30dB
FL155E	2.9 km	1.5 km	700 m
FL155EW	1.5 km	900 m	400 m
FL-G	1.3 km	800 m	400 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

MULTIMODE FIBER INTERFACE

	FL 155	FL-G
Protocol	Transparent	Gigabit Ethernet
System Interface	SC Connector	SC Connector
Interface Wavelength	1270 to 1370 nm	780 to 950 nm
Optical Receive Power	-14 to -30 dBm	0 to -17 dBm
Optical Transmit Power	-14 to -22 dBm	-4 to -9.5 dBm

SINGLEMODE FIBER INTERFACE

	FL 155	FL-G
Protocol	Transparent	Gigabit Ethernet
System Interface	SC Connector	SC Connector
Interface Wavelength	1270 to 1350 nm	1260 to 1360 nm
Optical Receive Power	-8 to -31 dBm	-3 to -20 dBm
Optical Transmit Power	-8 to -15 dBm	-3 to -9.5 dBm

CLASSIFICATION

IEC/EN 69825-1/A2	Class 1M