



FLIGHTSTRATA™ 155E, 155EW & G

OVERVIEW

The FlightStrata 155E, FlightStrata 155EW and FlightStrata G are the only products on the market to combine auto-tracking with a four-beam system. The full-featured FlightStrata models take LightPointe's proven multiple-beam technology to the next level by ensuring the highest availability and performance of a standalone Optical Wireless solution. FlightStrata receiver lens layout combines Optical Beam Shaping (OBS), with Automatic Power Control (APC), addressing changing atmospherics and building movement. FlightStrata transmits four redundant beams of light that overlap and adjust via Multi-Beam Array Tracking (MBAT) technology. The combination of rotational optics, MBAT and APC results in greater link margins, which translate into improved Optical Wireless performance. FlightStrata is a direct result of customer feedback and our years of field experience around the world.

FEATURES AND BENEFITS

- Gigabit Ethernet Throughput FlightStrata is available in 155Mbps and a Gigabit Ethernet option, our most robust system that delivers up to 1.25 Gbps of dull-duplex throughput between two buildings.
- Auto Tracking FlightStrata is the only Optical Wireless product on the market to combine multiple-beam and multiple-receiver architecture with auto tracking.
- Long-Distance Performance FlightStrata 155E has a typical operational distance range of 3 kilometers.
- Robust Product Housing and Design with its internal heating element and lens cover defroster, the FlightStrata can perform in temperature ranges of -25°C to 60°C (-13°F to 140°F).
- Immune to Radio Frequency Interference all LightPointe Optical Wireless products are immune to radio frequency interference and spectrum saturation.



Data Sheet

OUTDOOR UNIT

Four-Beam Optics System with Auto Tracking and Auto Power Control Description

Receiver/Transmitter(s) Four receivers, four transmitters

Dimensions (WxHxL) 321 x 297.5 x 620 mm (12.6 x 11.7 x 24.4 in)

Unit Weight 11.1 kg (24.4 lbs)

Shipping Weight 26.4 kg (58 lbs) x1 linkhead

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 40 W Immune to EMI & RF Interference Yes Built-In Alignment Telescope Yes Built-In Defroster Yes SNMP Management Option

FREE SPACE

Bit Rate FSA155E, FSA155EW = 1.5Mbps to 155Mbps

FSA-G = 1.25Gbps

Operational Ranges Recommended Maximum Distance

Distance FSA155E 4,800 m² 3,000 m FSA155EW 1,800 m 2,400 m² FSA-G 750 m $2,000 \text{ m}^2$

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

MULTIMODE FIBER INTERFACE 155E(W) FSA-G

Protocol Transparent Gigabit Ethernet System Interface SC Connector SC Connector Interface Wavelength 1270 to 1350 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 155E(W)

Protocol Transparent (FSA622: SONET/SDH/ATM) Gigabit Ethernet SC Connector System Interface SC Connector Interface Wavelength 1270 to 1350 nm 1260 to 1360 nm Optical Receive Power -8 to -31 dBm -3 to -20 dBm -8 to -15 dBm -3 to -9.5 dBm

Optical Transmit Power

CLASSIFICATION

IEC/EN 69825-1/A2 Class 1M

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



FSA-G

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