



FLIGHTSTRATA 155E/FLIGHTSTRATA G

APPLICATION

The FlightStrata 155E and FlightStrata G are the only products on the market to combine auto-tracking with a four-beam system. Both 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. The FlightStrata receiver lens layout combines Optical Beam Shaping (OBS), with Automatic Power Control (APC), addressing changing atmospherics and building movement. The 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. The FlightStrata is a direct result of customer feedback and many years of field experience around the world.

KEY FEATURES

- Gigabit Ethernet Throughput The FlightStrata is available in 155Mbps and a Gigabit Ethernet option that delivers up to 1.25 Gbps of full-duplex throughput between two buildings.
- Auto Tracking The FlightStrata is the only Optical Wireless product on the market to combine multiple-beam and multiple-receiver architecture with auto tracking.
- 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.

UNIT SPECIFICATIONS

Description

Receiver/Transmitter(s)

Dimensions (WxHxL)

Unit Weight

Operating Voltage

Operating Temperature

Humidity Range

Power Consumption Max

Immune to EMI & RF Interference Built-In Alignment Telescope

Built-In Defroster

SNMP Management

FlightStrata 155E & FlightStrata G

Four-Beam Optics System with Auto Tracking and

Auto Power Control

Four receivers, four transmitters

321x297.5x620 mm (12.6x11.7x24.4 in)

11.1 kg (24.4 lbs)

90 to 240 V (50/60 Hz) or +/- 48 V DC

-25 C to 60 C (-13 F to 140 F)

Up to 95% non-condensing

40 W

Yes

Yes

Yes

Optional





FREE SPACE SPECIFICATIONS

Bit Rate FSA 155E = 1.5Mbps to 155Mbps

FSA G = 1.25Gbps

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 FSA 155E 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 FSA 155E FSA G

ProtocolTransparentGigabit EthernetSystem InterfaceSC ConnectorSC ConnectorInterface Wavelength1270 to 1350 nm1260 to 1360 nmOptical Receive Power-8 to -31 dBm-3 to -20 dBm

CLASSIFICATION

IEC/EN 60825-1/A2 Class 1M

RECOMMENDED OPERATIONAL RANGES



