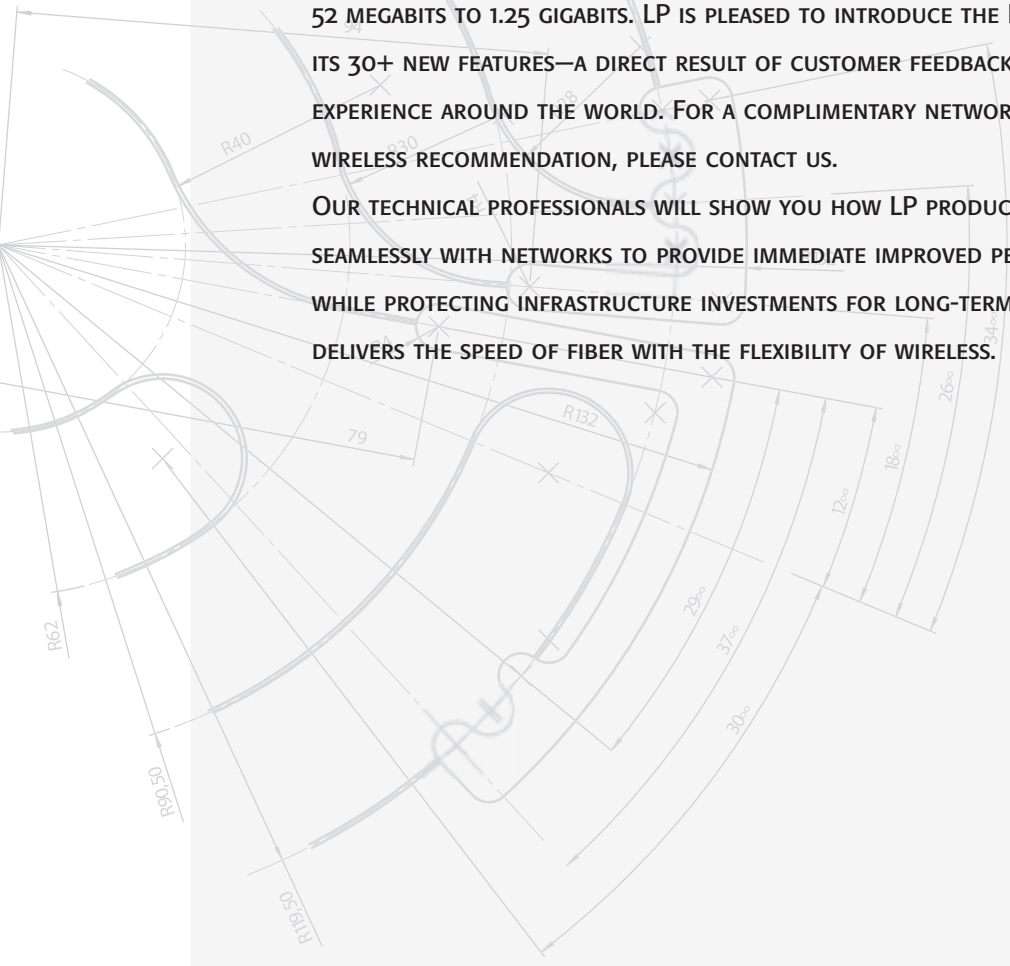
FlightStrata™

The FlightStrata is the flagship of LP's Flight Optical Transport family, the suite of optical wireless products installed by more major Service Providers and Enterprises than any other. The FlightStrata takes proven multiple-beam technology to the next level. FlightStrata's optical transmitter and receiver lens layout enables improved operation through improved link margin, while Optical Beam Shaping (OBS), in conjunction with Automatic Power Control (APC), addresses 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 means even greater link margins, which translate into improved optical wireless performance. The FlightStrata is available in eight models, delivering connectivity of 52 megabits to 1.25 gigabits. LP is pleased to introduce the FlightStrata and its 30+ new features—a direct result of customer feedback and our years of field experience around the world. For a complimentary network review and optical wireless recommendation, please contact us.

Our technical professionals will show you how LP products work seamlessly with networks to provide immediate improved performance and savings, while protecting infrastructure investments for long-term value. The FlightStrata delivers the speed of fiber with the flexibility of wireless.



Data Sheet

OUTDOOR UNIT

Description	Four-Beam Optics System with Auto Tracking and Auto Power Control
Receiver/Transmitter(s)	Four receivers, four transmitters
Dimensions (W x H x L)	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) x 1 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

FREE SPACE

Bit Rate

FSA52E, FSA52EW = 1.5 Mbps to 54 Mbps
FSA155E, FSA155EW = 1.5 Mbps to 155 Mbps
FSA622 = 622 Mbps, FSA-G = 1.25 Gbps

Operational Ranges

	Light Haze Light Rain	Thin Fog Heavy Rain	Moderate Fog Monsoon
	-3 dB	-10 dB	-30 dB
FSA52E	5.6 km	2.4 km	1.1 km
FSA52EW	5.2 km	2.3 km	1.0 km
FSA155E	4.8 km	2.2 km	1.0 km
FSA155EW	4.4 km	2.0 km	900 m
FSA622	3.3 km	1.6 km	800 m
FSA-G	2.0 km	1.1 km	600 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

Protocol	Transparent, FSA622: SONET/SDH/ATM, FSA-G: Gigabit Ethernet
System Interface	SC Connector
Interface Wavelength	1270 to 1350 nm, FSA-G: 780 to 950 nm
Optical Receive Power	-14 to -30 dBm, FSA-G: 0 to –17 dBm
Optical Transmit Power	-14 to -22 dBm, FSA-G: -4 to -9.5 dBm

SINGLEMODE FIBER INTERFACE

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

CLASSIFICATION

IEC/EN 60825-1/A2	Class 1M