

The industry's only 4-beam carrier-grade Gigabit bridge with auto-tracking & AGC

- 4th generation Free Space Optics point-to-point Gigabit bridge for businesses, government agencies and 4G/LTE carriers.
- Industry exclusive 4-beam laser system with auto-tracking for superior reliability & throughput.
- Worldwide license-free technology, highly secure and immune to RF interference and congestion.
- Flexible SFP-based optical fiber interface options.

Free Space Optics Wireless Bridge for Enterprises & Carriers

LightPointe's AireStrata™ Series includes 4th generation optical wireless bridges designed for the most critical data transmission needs of Enterprises and Carriers. The AireStrata G builds on the successful FlightStrata™ Series, which is proven in thousands of installations worldwide in the most demanding environments. The AireStrata G is the only point-to-point wireless bridge in the industry combining 4-beam auto-tracking technology, Automatic Gain Control (AGC) and advanced carrier-grade network management features.

The AireStrata G does not require licensing and is completely immune to radio frequency interference and congestion issues. These units are very cost effective and can be deployed quickly in all regions of the world where Gigabit capacity Ethernet connectivity is required.

Flexible Enterprise & Carrier Applications

- 4G/LTE carrier-grade backhaul (reliable 4-beam system with 4 transmitters and 4 receivers)
- Business and school building/campus connectivity
- Mobile backhaul
- Metropolitan Area Networks (MAN)
- Hospital/medical network connectivity
- Digital video/security backhaul
- LAN extension
- Homeland security and disaster recovery
- Military base and theater of operations connectivity
- Network redundancy/backup
- Leased-line replacement

4th Generation FSO Features for a 4G World

- High Speed full-duplex carrier-grade Gigabit connectivity for highly reliable transmission up to 1000 meters.
- Utilizes the latest optical transmission technology, considered the most secure point-to-point communication solution available, with pinpoint accuracy and secure delivery of your most sensitive data or video. Signal cannot be successfully intercepted.
- Industry exclusive 4-beam laser system with high quality glass German optical lenses and Auto Tracking.
- AirPex™ switch, enabling inband/outband management and add/drop network status indicators.
- Auto adjusting receive power, for distance flexibility.
- Intuitive AireManager™ Web interface allows links to be configured and monitored from a network computer.
- SNMP V1/2c support and alarm reports via SNMP traps.
- SFP-based optical fiber interface options (GigE/GbE SFPs, 100/1000 RJ45 copper interface).

OPTICAL WIRELESS UNIT

Description	Four-Beam Optics System with Auto Tracking and Automatic Power Control
Receiver/Transmitter(s)	Four transmitters, four receivers
Dimensions (W x H x L)	321x297.5x620 mm (12.6x11.7x24.4 in)
Unit Weight	TBD kg (TBD lbs)
Unit Shipping Weight	TBD (TBD lbs) including mount, alignment bracket
Operating Voltage	Direct 48 Vdc or 48 Vdc via PoE injector
Alignment System	Heavy duty pan/tilt alignment bracket
Operating Temperature	-25 C to 60 C (-13 F to 140 F)
Humidity Range	Up to 95% non-condensing
Power Consumption Max	40W
Immune to EMI & RF Interference	Yes
Built-In Alignment Telescope	Yes
Built-In Defroster	Yes
Bit Rate	1.25Gbps, full-duplex
Operational Range	Up to .6 mile/~1000 meters (@17 dB/km attenuation)
Optical Transmitters	4 x 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

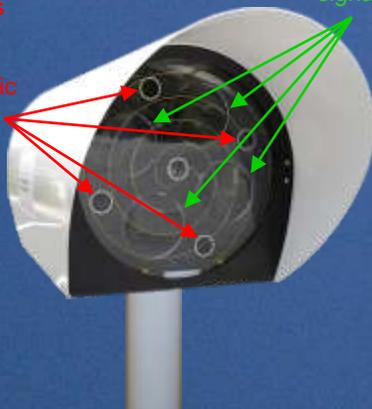
LAN NETWORKING INTERFACES

Protocol/Data Rate	802.3z, Gigabit Ethernet
Physical LAN Network Interface	Standard fiber SFP (1000Base-SX/LX, copper) and/or 100/1000 RJ-45 copper
VLAN Ethernet Support	up to 1250 Mbps, full-duplex, rate adaptive, VLAN/802.1Q pass-through support
Latency	< 50 microseconds (typ.)
AirePex™ support	Integrated multiport Ethernet 1.2 switch enabling inband/outband management and add/drop network traffic functionality.
Physical Mgt. Interface	Inband via Ethernet or outband via separate 10/100 RJ-45 copper port
DualPath™ Interface (LX)	IP67 rated external 10/100 RJ45 conn., non-powered or passive PoE (4,5+; 7,8 -)
Management System	Integrated Ethernet based Web Browser GUI, SNMP v1/2c (optional v3), RMON, Alarm Reporting via SNMP traps, TELNET

REGULATORY

EMC	Optical: FCC PART 15, CE Mark RF: FCC Part 15.247, IC RS210, CE MARK
Laser Safety	Eye safe Class 1M laser product (IEC/EN 60825-1/A2)

Exclusive simultaneous 4-beam transmission with automatic tracking



4 large aperture receivers prevent signal interruption



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