AIRELITE™100 / AIRELITE™100E

APPLICATION

The AireLite™ product line is the latest additions to the LightPointe's Enterprise Fast Ethernet solutions. Built on the heritage and success of the original FlightLite™ product line that has been deployed in more than 60 countries worldwide, the AireLite™100 and AireLite™100E are ideal to solve Enterprise building-to-building connectivity problems. Equipped with the integrated AireManager™ management platform, the AireLite™products can be monitored and managed via a standard Internet web browser or SNMP based network management system.

For customers who currently lease copper access between buildings or who are considering costly fiber-optic cable, the LightPointe solutions offer significantly higher bandwidth with full-duplex speeds and a welcome end to recurring monthly fees. The AireLite™100 and 100E provide attractive wireless bridging solutions at higher data rates than competing unlicensed RF alternatives.

KEY FEATURES

Copper Interface – Easily integrates into existing LANs. "Plug and Play" install with CAT5 cable.

Power over Ethernet – Product installation simplified with no need for costly electrical wiring runs or new outlets.

Fast Ethernet Speed – Full-duplex 100Mbps speed is considerably faster than unlicensed RF alternatives.

Immune to RF Interference – All LightPointe Optical Wireless products are free from radio frequency interference and spectrum saturation issues.

Lightweight, Compact Design – At 4.5kg (9.9 lbs), the AireLite™100 and AireLite™100E are lightweight, powerful and simple to install.

Robust Outdoor Enclosure – Weatherized, rugged and designed for outdoor installations in environments of -30°C to 60°C (-22°F to 140°F); heat shields are also available for hotter climates.

Integrated Heater and Lens Defroster – The AireLite™ 100 and AireLite™ 100E are equipped with an integrated heater and a lens defroster for low-temperature climates .

Eyesafe Operation – All LightPointe products are rated Class 1M, the internationally recognized standard for eye-safe operation of laser based communications systems.

Web based Management – The AireLite™ product line can be monitored via a standard Internet based web browser.

SNMP Management – The AireLite™ products line fully supports SNMP based network monitoring, management and alarm reporting.

Upgradable Software – Internet based uploading of system firmware and software.

Data Sheet

UNIT SPECIFICATIONS — AireLite™100 & AireLite™100E

Description	Fixed Optics System
Receiver/Transmitter(s)	One transmitter, one receiver
Dimensions (WxHxL)	215x200x400 mm (8.5x7.9x15.75 in)
Unit Weight	4.5 kg (9.9 lbs)
Operating Voltage	48V (PoE-injector)
Operating Temperature	-30 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 Management	Yes, Web browser, Telnet, and SNMP (v.1/v.2c)
Built-In Heater and Lens Defroster	Yes; auto activation at 15 C (59 F)

FREE SPACE SPECIFICATIONS

Bit Rate	10Mbps to 100Mbps, full-duplex
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

INTERFACE

Protocol	10/100-Base-TX Ethernet, auto, full-duplex
Power Over Ethernet	High Power Over Ethernet via LightPointe PoE injector
Data Connector	Copper RJ-45
Management Connector	Copper RJ-45
Terminal Connector	RJ-12
Others	Link Pass Through enable/disable

CLASSIFICATION

IEC/EN 60825-1/A2	Class 1M

RECOMMENDED OPERATIONAL RANGES

AireLite™100 — 500 Meters (Approximately 1,700 Feet)

AireLite™100E — 1,000 Meters (Approximately 3,300 Feet)
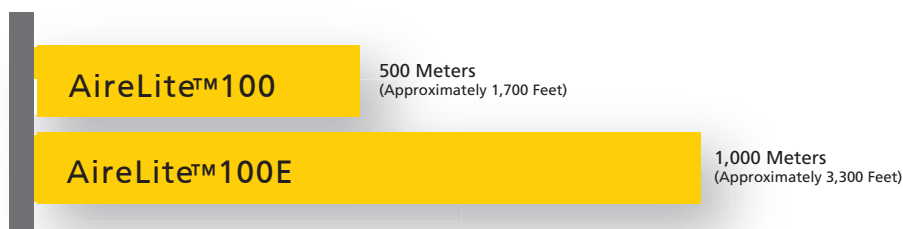
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