GeoDesy FSO www.geodesy-fso.com

AT-1200/2400

DATASHEET

Description

Dynamic Beam Tracking system

Key Features:

YEAR

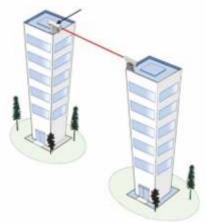
- Automatic focusing adjustment
- Full duplex connectivity
- Industry standard interfaces
- Secure data transmission
- Fast deployment
- Built-in automatic failover
- License free operation
- Up to 2400 meter transmission

Applications:

- Enterprise connectivity
- Hospitals
- Large industrial sites
- Airfields
- Campus links
- **Financial institutions**
- Universities
- ISP's

Usage examples

Point to Point connectivity



Part Nr	Recommended maximum installation distance (Clear Weather)	Recommended maximum Installation distance (@17dB/km)	
AT-P1200E1000TP *	1200 m	1200 m	
PX-P2400E1000TP *	2400 m	1800 m	

Geodesy Laser FSO is a perfect solution to interconnect points with a full duplex network speed

PX-P2400E1000TP *
2400 m
1800 m
full duplex network spectrum

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that offers full-duplex Gigabit Ethernet
transmission.through glass, so it is fai
technology as optical co
the speed of light. T
1200/2400 series of Fre
data transmission system

A technology that offers high security and a fast, high Return on Investment (ROI).

Imagine an outdoor wireless technology

That technology is Free Space Optics (FSO). GeoDesy FSO provides highspeed connections, across Enterprises and between cell-site towers; it is the best technology available.

FSO is a line-of-sight technology that uses invisible beams of light to provide optical bandwidth connections that can send and receive voice, video, and data information. Today, FSO technology—the foundation of GeoDesy FSO wireless offerings—has enabled the development of a new category of outdoor wireless products that can transmit voice, data, and video at bandwidths up to 1.25Gbps.

This optical connectivity doesn't require expensive Fibre-optic cable or securing spectrum licenses for radio frequency (RF) solutions. FSO technology requires light.

The use of light is a simple concept similar to optical transmissions using Fibre-optic cables; the only difference is the medium. Light travels through air faster than it does through glass, so it is fair to classify FSO technology as optical communications at the speed of light. The all new AT 1200/2400 series of Free Space Optics data transmission systems provides many unique advantages, and among these is Auto Tracking.

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This is an exclusive GeoDesy feature, which is now built-in to the GeoDesy AT product line. Auto Tracking maintains precise beam alignment despite even the slightest movement in the installation base, which can be caused by wind, temperature changes, trafic, or other environmental factors. With built-in Auto Tracking, GeoDesy AT optical beam axis will selfcorrect on a continual basis. Incorporating technology from GeoDesy's experience in developing FSO optical systems for the telecommunications market, the GeoDesy Auto Tracking feature is the most advanced available today in Free Space Optics. This critical feature maintains sensitive communications and is one of the reasons why GeoDesy is the leader in the Free Space Optics market.

GeoDesy Fso

www.geodesy-fso.com

Wireless

AT-1200/2400

Electrical characteristics

Light source Laser diode power Detector Dynamic range Bandwidth Management System latency Physical characteristics	LaserDiode 1 or 2 x 25 mW SiAPD Photodiode ~42 dB 1000Mbps full duplex Web based SNMP compatible In-band management <50ns
Weight	25 kgs
Optical characteristics Wavelength Beam divergence Receiver angle Laser class Movement Tolerance	785 nm 1 mRad adjustable 8.5 mRad Class 1M 5 degrees circular
Environment	
Operating temperature Storage temperature Humidity	-40 to +60 °C -60 to +80 °C 95% non condensed
Wired	

Network

Fast Ethernet Interface

Power

Internal PSU power Power to the head 1000 Base-T, Rj45 / FO

115/230 vAC ~50Wh POE Compatible 48 vDC *,** 48vDC power supply ***,****

YOUR GEODESY DISTRIBUTOR

GeoDesy FSO has 120 years experience of manufacturing surveying equipment from our base at the Hungarian Optical Works MOM. Here we combine traditional manufacturing techniques with the latest manufacturing technologies. Using our knowledge of high efficiency optical systems and precision mechanical manufacturing GeoDesy have developed a range of high speed, low cost FSO products, becoming a leading player in the free space optical communication market. Our product range offers broadband, point to point connectivity enabling wireless networking over and above your current infrastructure, suitable for a wide range of applications.

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