

)ATASHEE





















The AF RANGE products are the fifth generation of compact free space laser based systems from GEODESY-FSO designed to deliver a cost-effective solution for high speed wireless connectivity. The laser transmission carries the data using the concentrated laser beam and a unique modulation technique is employed to ensure error free data transfer over distances up to 1000 meters. The transparent and wire speed data transfer together with virtually zero latency assures the easy integration of the system in all environments. Because they use infrared light GEODESY-FSO systems do not require frequency licenses and the

transmission is not affected by electro-magnetic

extremely hard to tap, even to discover. Basically,

interference. The concentrated laser beam is

the GEODESY-FSO link can be considered as a virtual fibre in the air.

The GEODESY-FSO AF RANGE system comprises of two Laser Heads, and two High Power POE power supply. The Laser Heads are installed outdoors, where a clear optical path exists between the two sites. The system contains built-in signal monitoring unit, which features a visual signal strength indicator and LINK status information LCD display accessible on the rear of the lase head.

By utilizing standard network interfaces, GEODESY-FSO systems protect the customers' investments in long-term projects. Moreover, AF RANGE systems offer high level of network flexibility due to their extremely fast installation method, which makes them ideal to follow network topology changes.

Usage examples **PTP**

Geodesy AF Series is a perfect solution to interconnect points with a full duplex 100Mbps speed



Part Nr	Recommended maximum installation distance (Clear Weather)	Recommended maximum Installation distance (@17dB/km)
PX-P0500E100/AF/TP	500 m	500 m
PX-P1000E100/AF/TP	1000 m	800 m
PX-P0500E1000TP/AF/TP	500 m	500 m

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ireless

Electrical characteristics

LaserDiode Light source Laser diode power 25 mW

Detector SiAPD Photodiode

Dynamic range ~42 dB

Bandwidth 1250Mbps full duplex

Web based SNMP compatible Management

In-band management

<50ns System latency

Physical characteristics

Weight 15 kgs

Optical characteristics Optical characteristics

Wavelength 785 nm

Beam divergence 1 - 15 mRad automatic

Receiver angle 8.5 mRad Laser class Class 1M

Environment

-40 to +60 °C Operating temperature Storage temperature -60 to +80 °C

Humidity 95% non condensed

Laserhead protection rating IP 65

Wired

Network

Fast Ethernet Interface 1000/100 Base-T, Ri45 9 FO

Power

115/230 vAC ~50Wh Internal PSU power

Power to the head POE Compatible 48 vDC *,**

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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www.geodesy-fso.com