# **JATASHEE**













## **Key features**

Provides PTP communication @100Mbps Ethernet connectivity from 20m to 5000m Full duplex connectivity Industry standard interfaces Secure data transmission Quick installation and re-deployment Built-in signal monitoring License free operation

Geodesy FSO PX100 series of products provides reliable and secure point-to-point wire speed Fast Ethernet connectivity from 20 to 5000 meters. Due to its neutral environemtal and health effects these units are suitable for indoor or outdoor application. PX100 series products feature industry standard interfaces and Power over Ethernet (PoE) ---interface with advanced Anypower technology, which allows operation both from standard PoE or HighPoE power sources. PX100 systems integrate enhanced device management platform.

Remote monitoring of the equipment through a standard web browser, SNMP manager, or GeoDesy monitoring software.

Because they use infrared light as a transmission medium, GeoDesy FSO systems do not require frequency licenses. The transmission is not effected by electro-magnetic interference. Due to the concentrated laser beam the PX100 products provide superb security, which fulfils the highest requirements.

# Usage examples

PTP

Geodesy PX 100 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-P0200E100TP *	200 m	200 m
PX-P0350E100TP *	350 m	350 m
PX-P0650E100TP *	650 m	650 m
PX-P1800E100TP **	1800 m	1700 m
PX-P3000E100TP ***	3000 m	2000 m
PX-P5000E100TP ****	5000 m	2500 m

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# 'ireless

### **Electrical characteristics**

Light source Laser diode power

Detector

Dynamic range

Bandwidth

Management

System latency

LaserDiode 35 mW

SiAPD Photodiode

~42 dB

100Mbps full duplex

Web based SNMP compatible

In-band management

<50ns

Physical characteristics

Weight 5-25 kgs

Optical characteristics

Wavelength Beam divergence

Receiver angle Laser class

785 nm

1 mRad adjustable

8.5 mRad Class 1M

**Environment** 

Operating temperature Storage temperature

-40 to +60 °C

-60 to +80 °C

# Wired

### **Network**

Fast Ethernet Interface

100 Base-T, Ri45

Power

Internal PSU power Power to the head

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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