

# free space optics



**Pico Next** 200  
350

## Applications

- Interconnect computer networks
- Emergency backup
- VoIP connectivity
- Temporary installations
- Alternative to leased lines or radio links
- IP-based security applications
- Construction Sites
- Disaster recovery
- Military applications

## Product Description

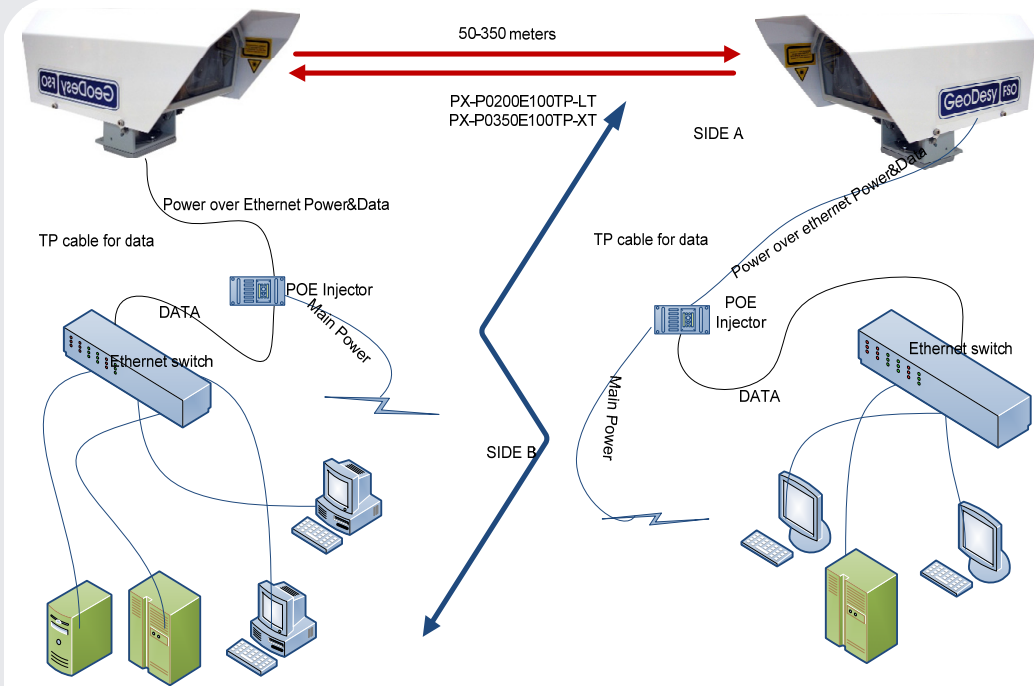
Pico Next is one of GeoDesy's **Next** series compact Free Space Optical (FSO) wireless communication systems. It provides reliable and secure point-to-point wire speed Fast Ethernet connectivity from 20 to 350 meters. Due to the light weight and size **Next** products are ideal both for indoor or outdoor application. All Next series products feature Power over Ethernet (PoE) interface with advanced Anypower technology, which allows operation both from standard PoE or HighPoE power sources.

**Next** systems integrate an enhanced device management platform and the possibility of remote monitoring of the equipment through a standard web browser or SNMP manager. 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 **Next** products provide superb security, which fulfils the highest requirements.

## Features

- Free space, communication up to 350m
- Full duplex wire speed Fast Ethernet connectivity
- Standard copper and fiberoptic interfaces
- Secure data transmission
- Quick installation & re-deployment
- Built-in signal monitoring
- Built in management with SNMP

## System layout



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### Technical specifications

#### Electrical characteristics

Light source	LaserDiode
Laser diode power	1x35mW
Detector	SiPIN Photodiode
Dynamic range	~30dB
Bandwidth	100Mbps
BER	1.00E-08
System latency	<50ns

#### Physical characteristics

Head housing	Aluminium Alloy
Weight	4kgs
Dimensions (with cover and alignment Unit, mm)	200 x 350 x 241

#### Optical characteristics

Wavelength	785 nm
Beam divergence	2—5 mRad
Receiver angle	8.5 mRad
Laser class	Class 1M

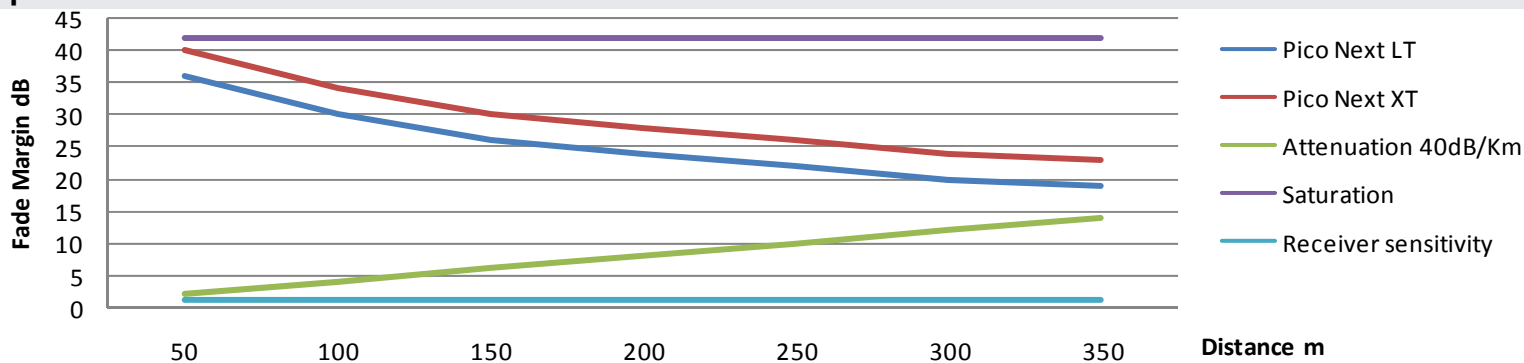
#### Environment

Operating temperature	-40 to +60 °C
Storage temperature	-60 to +80 °C
Humidity	95% non condensed
Laserhead protection rating	IP65
Power supply protection rating:	IP65

#### Power

Power Required	IEEE 802.3af (Power over Ethernet)
Power to the Head	IEEE 802.3af (Power over Ethernet)
Power to the Head	2 x 48VDC

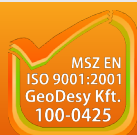
#### Operational Distances



### Order Information

Product	Description
PX-P0200E100TP LT	Pico Next LINK. Fast Ethernet IF. Max. 200 m distance between heads
PX-P0350E100TP XT	Pico Next LINK. Fast Ethernet IF. Max. 350 m distance between heads

Options	
/h	Heater Option for the Pico Next Link /High POE injector required/



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