

free space optics

Giga 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

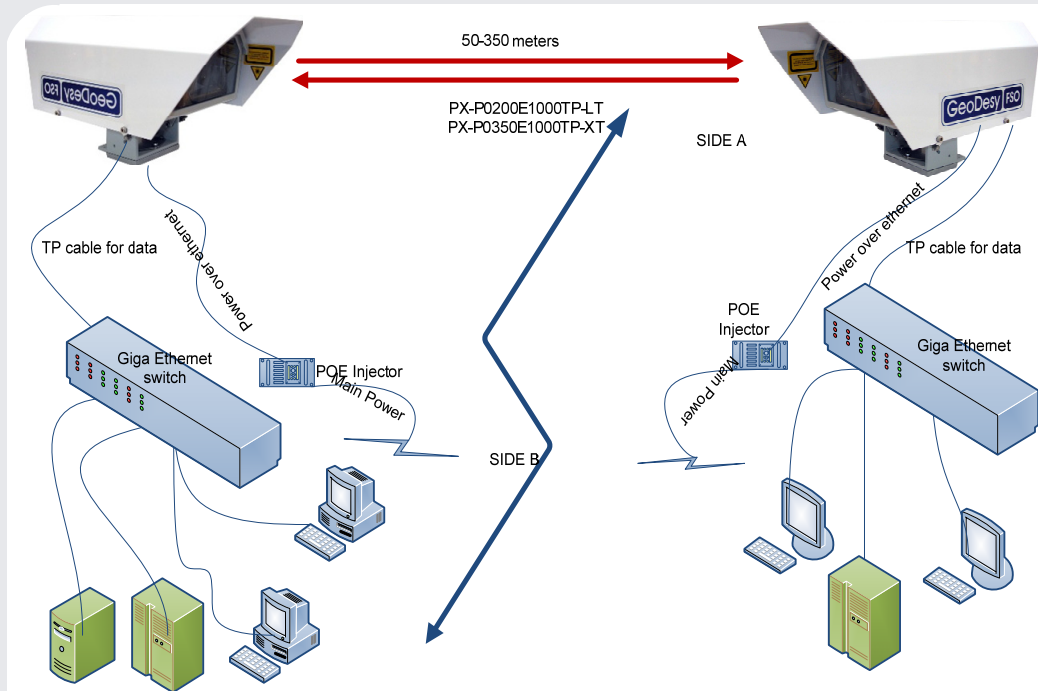
Giga Next is one of GeoDesy's **Next™** series compact Free Space Optical (FSO) wireless communication systems. It provides reliable and secure point-to-point wire speed Giga Ethernet connectivity from 20 to 350 meters. Due to the light weight and size **Next™** products are ideal both for indoor or 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 Gigabit connectivity
- Standard copper and fiberoptic interfaces
- Secure data transmission
- Quick installation & re-deployment
- Built-in signal monitoring
- Built in management with SNMP

System layout



free space optics

Giga Next ²⁰⁰ ₃₅₀

Technical specifications

Electrical characteristics

Light source	LaserDiode
Laser diode power	1x10mW
Detector	SiAPD Photodiode
Dynamic range	~35dB
Bandwidth	1.25Gbps
BER	1.00E-08
System latency	<50ns

Physical characteristics

Head housing	Aluminium Alloy
Weight	7kgs
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

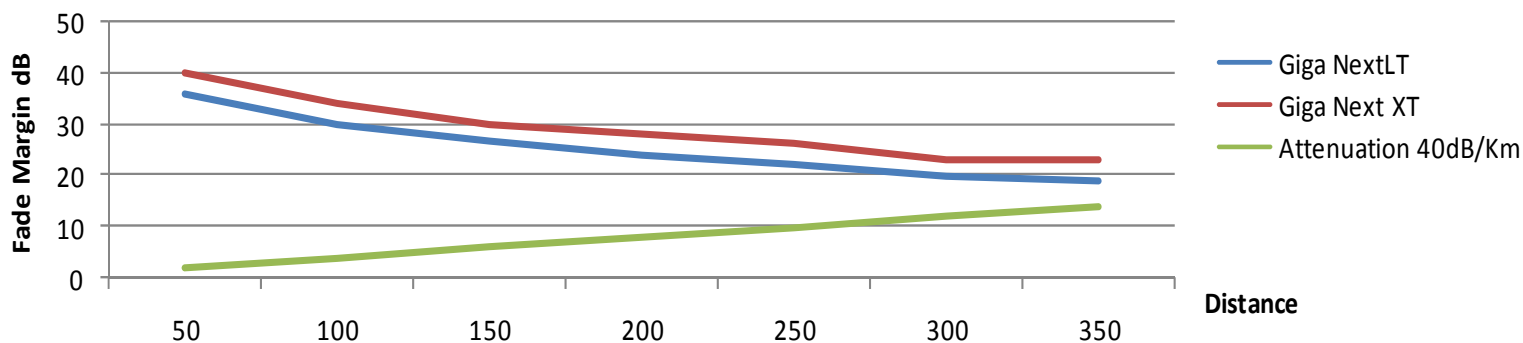
Environment

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-P0200E1000TP LT	Giga Next LINK. Gigabit Ethernet IF. Max. 200 m distance between heads
PX-P0350E1000TP XT	Giga Next LINK. Gigabit Ethernet IF. Max. 350 m distance between heads

Options

/h	Heater Option for the Giga Next Link
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