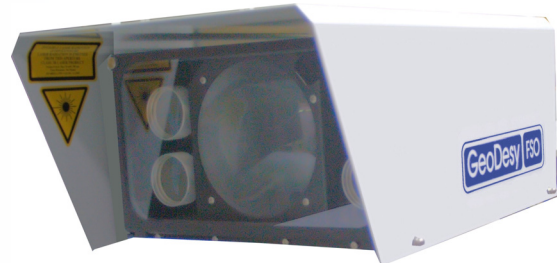


free space optics

Giga Pinto



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

A flexible, reliable and secure solution for Gigabit Ethernet wireless connections up to 650 m.

The GeoDesy FSO patented Automatic Inbound Power Control guarantees outstanding link availability figures even in extreme weather conditions. The adjustable optical system of the transmitter allows for custom-configurations for specific installations and site conditions.

The Giga Pinto can be enhanced with GDView, a device management platform allowing remote control and monitoring of the equipment through a standard web browser, an SNMP manager or the GeoDesy FSO BitView GUI interface.

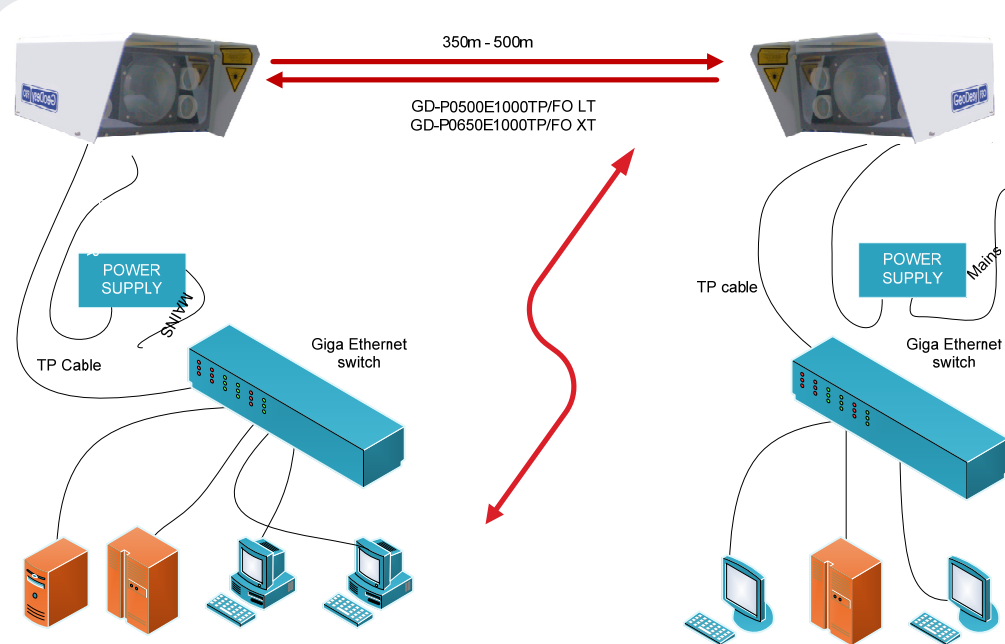
Because they use infrared light as transmission medium, GeoDesy FSO systems do not require frequency licenses and the transmission is not affected by electro-magnetic interference. The concentrated laser beam is extremely hard to tap, or even to detect, as it is invisible to spectrum analyzers or similar instruments. The transparent and wire-speed data transfer together with virtually zero latency assures easy integration of the system into all environments.

The Giga Pinto system comprises of two Laser Heads, two Outdoor Interconnection Units (OIU) and two sets of interconnection cables — one at each end.

Features

- Free space, communication up to 650m
- 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



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Giga Pinto

Technical specifications

Electrical characteristics

Light source	LaserDiode
Laser diode power	2x10mW
Detector	SiAPD Photodiode
Dynamic range	>40dB
Bandwidth	1.25Gbps
BER	1.00E-08
System latency	<50ns

Physical characteristics

Head housing	Aluminium Alloy
Weight	32kgs
Dimensions (with cover and alignment Unit, mm)	750 x467 x 480

Optical characteristics

Wavelength	785 nm
Beam divergence	0.5-15 mRad
Receiver angle	8.5 mRad
Laser class	Class 1M

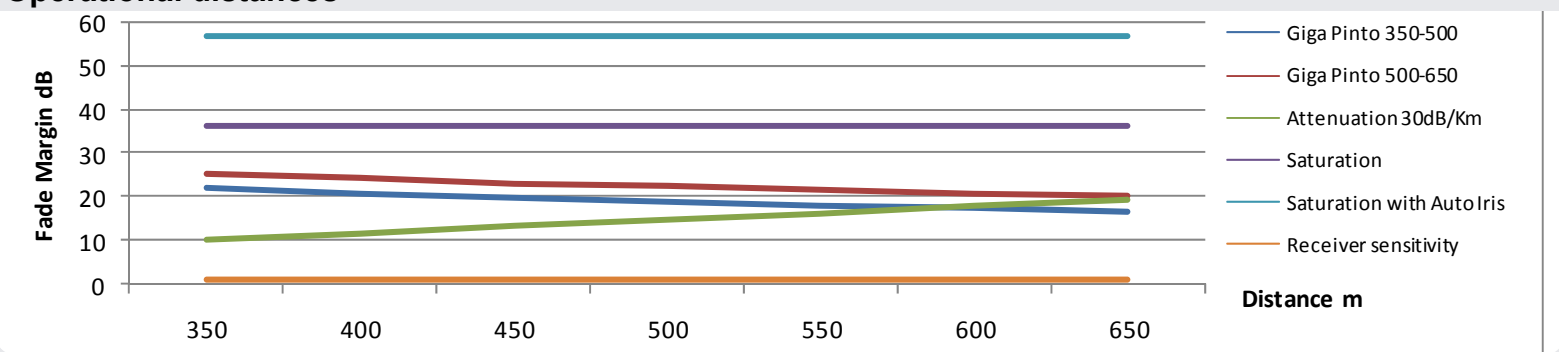
Environment

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

Power

Power Required	230VAC, 80W max. (110VAC or 48VDC opt.)
Power to the Head	120VA
Power to the Head	2 x 12v 3A max.

Operational distances



Order Information

Product	Description
GD-P0500E1000/xx/yyyy/z	Giga PintoLINK. Gigabit Ethernet IF. Max. 650 m distance between heads
Options	
GD-P0500E1000TP/MM/SM	Giga PintoLINK. Gigabit Ethernet link, with UTP/Multimode-SC/Singlemode-SC interface
GD-P0500E1000TP/115/230/-48	Giga PintoLINK. Gigabit Ethernet link with 115VAC/230VAC/-48VDC power input
GD-P0500E1000TP/230/S/H	Giga PintoLINK. Gigabit Ethernet link with with windowheater option



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