



Product catalogue

simplifying networks

## LICENCE-FREE OPERATION

No need to obtain frequency licenses for the operators of laser based wireless cabling solutions.

## COST-EFFECTIVE

Installation is a ONE-TIME investment with no recurring costs. Eliminates lease line costs.

## INVESTMENT PROTECTION

Industry standard network interfaces and a clear upgrade path for higher bandwidth protects your investment in GeoDesy FSO solutions.

## EYE SAFETY

GeoDesy FSO systems are designed and manufactured for eye-safe operation in compliance with the relevant EN, IEC and US standards. This ensures safe deployment and operation of GeoDesy FSO products.



## technology at work for you

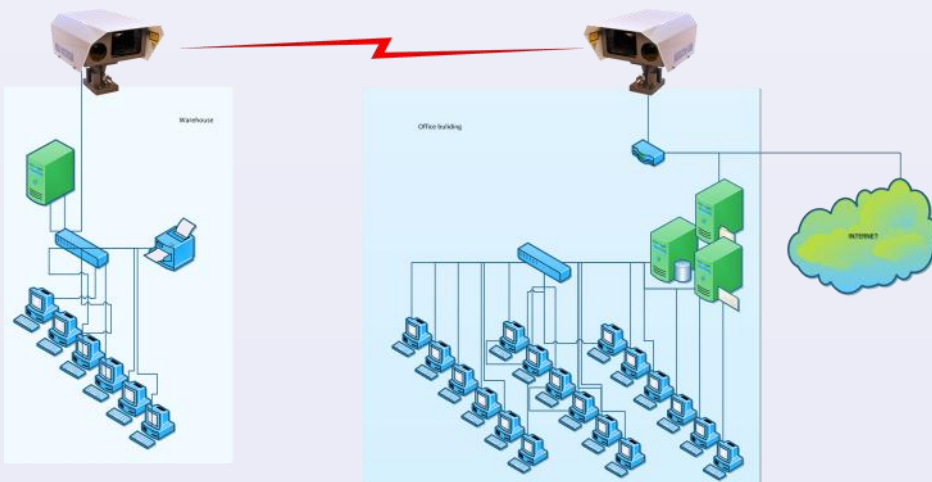
### CONNECTING YOUR BUSINESS WITHOUT BOUNDRIES

GeoDesy Product line offers a flexible point to point connection at real wirespeed. No tricks with the bandwidth, no compression. The latency is lower than the radio technology, and there are no health concerns. Easily redeployable, and there are no interference nor channel selection issues, no crosstalk problems. The system is safe to use even in crowded areas due to the concentrated transmission. The use of the latest innovative technology achievements turns the unit into the highest power budget FSO systems available on the market.

## flexible solutions for your business needs

### OUR MISSION IS YOUR TRANSMISSION

Geodesy offers products for every need. The configuration of the systems can be flexibly configured.





GeoDesy has a 120 years heritage of manufacturing surveying equipments from the Hungarian Optical Works MOM. Combining the traditional manufacturing standards with the latest manufacturing methods. To apply the knowledge of high efficiency optical systems and high precision mechanical manufacturing, through the latest acquisition GeoDesy has purchased the know-how from a technology leader FSO manufacturer, in 2006. In the past years as a developer and manufacturer GeoDesy has brought a whole new line of products to the market and created a new meaning of free space optical communication. The new product range which is individual on the market, has integrated management, and POE feature. The use of the systems is easier than ever SNMP helps the system administrators to control and monitor the data flow. From installation distances of 20 meters up to 5 kms with a wide bandwidth from 100 Mbps to 1.25 Gbps.

GeoDesy offers broadband, point to point connectivity enabling wireless networking over and above your current infrastructure. The GeoDesy-FSO technology gives you high security, scalability and superior price to performance value and has been successfully deployed for a wide range of applications across sectors as diverse as SP's, ISP's, Health, Education, Finance, Retail, and Industry. Geodesy FSO products provide reliable and secure point-to-point wire speed connectivity from 20 to 5000 meters. Due to the light weight and size the products are ideal both for indoor or outdoor application. All products feature Power over Ethernet (PoE) interface with advanced Anypower technology, which allows operation both from standard PoE or HighPoE power sources. The 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 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 products provide superb security, which fulfils the highest requirements.

## **FLEXIBILITY**

GeoDesy FSO systems are divided into distance ranges – customers select the system that matches their needs. They can be deployed in a wide variety of network architecture applications, including point-to-point, ring architecture and mesh systems.

## **SECURE DATA TRANSMISSION**

GeoDesy FSO free space transmission is one of the safest transmission methods. Direct interception is virtually impossible with the concentrated beam and physical placement of the equipment

## **EXCELLENT PRICE/PERFORMANCE**

GeoDesy FSO systems have outstanding low cost per bit ratios - are among the best in the industry.

## **NO INTERFERENCE**

Use of infrared light for communication means no interference issues.

## **HIGH BANDWIDTH, HIGH SPEED**

Optical free space data transmission matches the bandwidth and speed of fixed optical fibre.

## Electrical characteristics

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

## Physical characteristics

Head housing	Aluminium Alloy
Weight	3kgs
Dimensions(with cover and alignment Unit, mm)	287 x 178 x 240

## Optical characteristics

Wavelength	785 nm
Beam divergence	25 mRad
Receiver angle	8.5 mRad
Laser class	Class 1M

## Environment

Recommended maximum installation distance	100 meters (~350 feet)
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

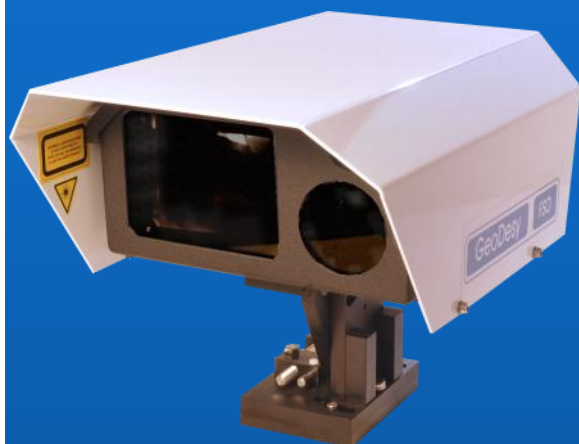
Power Required	IEEE 802.3af (Power over Ethernet)
Power to the Head	IEEE 802.3af (Power over Ethernet)
Power to the Head	2 x 48VDC

## Fade margin @ 100 m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	23 dB
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	22 dB
Low visibility (Fog 30dB/Km Rain ~130mm/h)	20 dB

## Order Information

Product Code	Description
PX-P0100E100TP	PlutoNext link 100BaseTX Ethernet IF 20-100m distance. POE power supply, installation kit, No SNMP web management, No heather option



## Electrical characteristics

Light source	LaserDiode
Laser diode power	1x35mW
Detector	SiPIN Photodiode
Dynamic range	~30dB
Bandwidth	100Mbps
Management	Web based SNMP compatible In-band management
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

## Fade Margin @ 350 m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	24 dB
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	20 dB
Low visibility (Fog 30dB/Km Rain ~130mm/h)	15 dB

## Order Information

Product Code	Description
PX-P0200E100TP	PicoNext link 100BaseTX Ethernet IF 100-200m distance. POE power supply, installation kit, SNMP web management included.
PX-P0200E100TP/h	PicoNext link w/ window heating 100BaseTX Ethernet IF 100-200m distance. POE power supply, installation kit, SNMP web management included.
PX-P0350E100TP	PicoNext link 100BaseTX Ethernet IF 200-350m distance. POE power supply, installation kit, SNMP web management included.
PX-P0350E100TP/h	PicoNext link w/ window heating 100BaseTX Ethernet IF 200-350m distance. POE power supply, installation kit, SNMP web management included.

# PICO NEXT AF



## Electrical characteristics

Light source	LaserDiode
Laser diode power	1x35mW
Detector	APD Photodiode
Dynamic range	~30dB
Bandwidth	100Mbps
Management	Web based SNMP compatible In-band management
System latency	<50ns

## Physical characteristics

Head housing	Aluminium Alloy
Weight	6kgs
Dimensions (with cover and alignment Unit, mm)	200 x 350 x 241

## Optical characteristics

Wavelength	785 nm
Beam divergence	1—10 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

## Fade margin @ 500 m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	Max: 30 dB
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	Max: 27 dB
Low visibility (Fog 30dB/Km Rain ~130mm/h)	Max: 20dB

## Features:

- Adaptive automatic beam adjustment
- Installation aid for fast beam shaping
- Weather compensation

## Order Information

Product Code	Description
PX-P0500E100/AF/TP	PicoNext link 100BaseTX Ethernet IF 100-500m distance. POE power supply, installation kit, SNMP web management included with Automatic beam shaping.
PX-P0500E100/AF/TP/h	PicoNext link w/ window heating 100BaseTX Ethernet IF 100-500m distance. POE power supply, installation kit, SNMP web management included with Automatic beam shaping.

# GIGA PICO NEXT

## Electrical characteristics

Light source	LaserDiode
Laser diode power	1x10mW
Detector	SiAPD Photodiode
Dynamic range	~35dB
Bandwidth	1.25Gbps
Mnagemenrt	Web based SNMP compatible Out-band management
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

## Fade Margin @ 350 m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	23 dB
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	19 dB
Low visibility (Fog 30dB/Km Rain ~130mm/h)	14 dB



## Order Information

Product Code	Description
PX-P0200E1000TP	GigaPicoNext link 1000BaseTX/FX Ethernet IF 20-200m distance. POE power supply, installation kit, SNMP web management included.
PX-P0200E1000TP/h	GigaPicoNext link w/ window heating1000BaseTX/FX Ethernet IF 20-200m distance. POE power supply, installation kit, SNMP web management included.
PX-P0350E1000TP	GigaPicoNext link 1000BaseTX/FX Ethernet IF 200-350m distance. POE power supply, installation kit, SNMP web management included.
PX-P0350E1000TP/h	GigaPicoNext link w/ window heating1000BaseTX/FX Ethernet IF 200-350 distance. POE power supply, installation kit, SNMP web management included.

# GIGA PICO NEXT AF

## Electrical characteristics

Light source	LaserDiode
Laser diode power	1x10mW
Detector	SiAPD Photodiode
Dynamic range	~35dB
Bandwidth	1.25Gbps
Mnagementr	Web based SNMP compatible Out-band management
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	1—10 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

## Fade Margin @ 500m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	Max 29 dB
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	Max 23 dB
Low visibility (Fog 30dB/Km Rain ~130mm/h)	Max 16 dB



## Order Information

Product Code	Description
PX-P0500E1000/AF/TP	GigaPicoNext link 1000BaseTX/FX Ethernet IF 100-500m distance. POE power supply, installation kit, SNMP web management included, with Automatic beam shaping.
PX-P0500E1000/AF/TP/h	GigaPicoNext link w/ window heating1000BaseTX/FX Ethernet IF 100-500 distance. POE power supply, installation kit, SNMP web management included with Automatic beam shaping.



# PINTO NEXT AF



Electrical characteristics	
Light source	Laser diode
Laser diode power	1x35mW
Detector	SiAPD Photo diode
Dynamic range	~35dB
Bandwidth	100Mbps
Management	Web based SNMP compatible In-band management
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	1—10 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

Fade Margin @ 1000m	
Normal visibility (Fog 3dB/Km Rain ~6mm/h)	25 dB
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	17 dB
Low visibility (Fog 30dB/Km Rain ~130mm/h)	7 dB

## Order Information

Product Code	Description
PX-P1000E100/AF/TP	PintoNext link 100BaseTX Ethernet IF 500-1000m distance. POE power supply, installation kit, SNMP web management included with Automatic beam shaping.
PX-P1000E100/AF/TP/h	PintoNext link w/ window heating 100BaseTX Ethernet IF 500-1000m distance. POE power supply, installation kit, SNMP web management included with Automatic beam shaping.



## Electrical characteristics

Light source	Laser diode
Laser diode power	1x35mW
Detector	SiAPD Photo diode
Dynamic range	~35dB
Bandwidth	100Mbps
Management	Web based SNMP compatible In-band management
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

## Fade Margin @ 500m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	25 dB
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	17 dB
Low visibility (Fog 30dB/Km Rain ~130mm/h)	7 dB

## Order Information

Product Code	Description
PX-P0500E100TP	PintoNext link 100BaseTX Ethernet IF 350-500m distance. POE power supply, installation kit, SNMP web management included.
PX-P0500E100TP/h	PintoNext link w/ window heating 100BaseTX Ethernet IF 350-500m distance. POE power supply, installation kit, SNMP web management included.
PX-P0650E100TP	PintoNext link 100BaseTX Ethernet IF 500-650m distance. POE power supply, installation kit, SNMP web management included.
PX-P0650E100TP/h	PintoNext link w/ window heating 100BaseTX Ethernet IF 500-650m distance. POE power supply, installation kit, SNMP web management included.

# GIGA PINTO NEXT

## Electrical characteristics

Light source	LaserDiode
Laser diode power	2x25mW
Detector	SiAPD Photodiode
Dynamic range	>40dB
Bandwidth	100 Mbps
Management	Web based SNMP compatible in-band management
System latency	<50ns

## Physical characteristics

Head housing	Aluminium Alloy
Weight	10kgs
Dimensions (with cover and alignment Unit, mm)	560x324x298

## 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	IEEE 802.3af (Power over Ethernet) 18W w/o heating w heating 28W
Power to the Head	IEEE 802.3af (Power over Ethernet) 18W w/o heating w heating 28W
Power to the Head	2 x 12v 3A max.

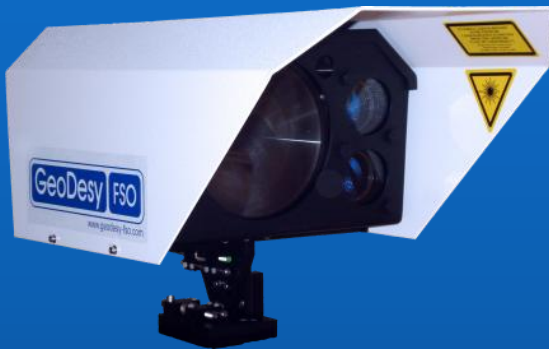
## Fade Margin @ 650m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	24 dB
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	16 dB
Low visibility (Fog 30dB/Km Rain ~130mm/h)	7 dB



## Order Information

Product Code	Description
PX-P0500E1000TP	GigaPintoNext link 1000BaseTX/FX Ethernet IF 350-500m distance. POE power supply, installation kit, SNMP web management included.
PX-P0500E1000TP/h	GigaPintoNext link 1000BaseTX/FX Ethernet IF 350-500m distance. POE power supply, installation kit, SNMP web management included w heater.
PX-P0650E1000TP	GigaPintoNext link 1000BaseTX/FX Ethernet IF 500-650m distance. POE power supply, installation kit, SNMP web management included.
PX-P0650E1000TP/h	GigaPintoNext link 1000BaseTX/FX Ethernet IF 500-650m distance. POE power supply, installation kit, SNMP web management included w heater.



## Electrical characteristics

Light source	LaserDiode
Laser diode power	2x35mW
Detector	SiAPD Photodiode
Dynamic range	>40dB
Bandwidth	100 Mbps
Management	Web based SNMP compatible in-band management
System latency	<50ns

## Physical characteristics

Head housing	Aluminium Alloy
Weight	10 kgs
Dimensions (with cover and alignment Unit, mm)	560x324x298

## 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 °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) 11W w/o heating w heating 21W
Power to the Head	IEEE 802.3af (Power over Ethernet) 11W w/o heating w heating 21W
Power to the Head	2 x 48VDC

## Fade Margin @ 1800m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	24 dB
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	16 dB
Low visibility (Fog 30dB/Km Rain ~130mm/h)	7 dB

## Order Information

Product Code	Description
PX-P1000E100TP	Pronto Next link 100BaseTX Ethernet IF 650-1000m distance. POE power supply, installation kit, SNMP web management included.
PX-P1000E100TP/h	Pronto Next link 100BaseTX Ethernet IF 650-1000m distance. POE power supply, installation kit, SNMP web management included w window heater.
PX-P1400E100TP	Pronto Next link 100BaseTX Ethernet IF 1000-1400m distance. POE power supply, installation kit, SNMP web management included.
PX-P1400E100TP/h	Pronto Next link 100BaseTX Ethernet IF 1000-1400m distance. POE power supply, installation kit, SNMP web management included w window heater.
PX-P1800E100TP	Pronto Next link 100BaseTX Ethernet IF 1400-1800m distance. POE power supply, installation kit, SNMP web management included.
PX-P1800E100TP/h	Pronto Next link 100BaseTX Ethernet IF 1400-1800m distance. POE power supply, installation kit, SNMP web management included w window heater.



## Electrical characteristics

Light source	LaserDiode
Laser diode power	4x35mW
Detector	SiAPD Photodiode
Dynamic range	>40dB
Bandwidth	100 Mbps
Management	Web based SNMP compatible in-band management
System latency	<50ns

## Physical characteristics

Head housing	Aluminium Alloy
Weight	15 kgs
Dimensions (with cover and alignment Unit, mm)	560x324x298

## 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 °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) 11W w/o heating w heating 21W
Power to the Head	IEEE 802.3af (Power over Ethernet) 11W w/o heating w heating 21W
Power to the Head	2 x 48VDC

## Fade Margin @ 3000m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	30 dB
Medium visibility (Fog 10dB/Km Rain ~30mm/h)	16 dB

## Order Information

Product Code	Description
PX-P2200E100TP	PX-2200 link 100BaseTX Ethernet IF 1800-2200m distance. POE power supply, installation kit, SNMP web management included.
PX-P2600E100TP	PX-2600 link 100BaseTX Ethernet IF 2200-2600m distance. POE power supply, installation kit, SNMP web management included.
PX-P3000E100TP	PX-3000 link 100BaseTX Ethernet IF 2600-3000m distance. POE power supply, installation kit, SNMP web management included.

# GIGA PRONTO NEXT

## Electrical characteristics

Light source	LaserDiode
Laser diode power	4x25mW
Detector	SiAPD Photodiode
Dynamic range	>40dB
Bandwidth	1000 Mbps
Management	Web based SNMP compatible in-band management
System latency	<50ns

## Physical characteristics

Head housing	Aluminium Alloy
Weight	15kgs
Dimensions (with cover and alignment Unit, mm)	560x324x298

## 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	IEEE 802.3af (Power over Ethernet) 18W w/o heating w heating 28W
Power to the Head	IEEE 802.3af (Power over Ethernet) 18W w/o heating w heating 28W
Power to the Head	2 x 12v 3A max.

## Fade Margin @ 1800m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	32 dB
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	10 dB



## Order Information

Product Code	Description
PX-P1000E1000	GigaProntoNext link 1000BaseTX/FX Gigabit Ethernet IF 650-1000m distance. POE power supply, installation kit, SNMP web management included.
PX-P1400E1000	GigaProntoNext link 1000BaseTX/FX Gigabit Ethernet IF 1000-1400m distance. POE power supply, installation kit, SNMP web management included.
PX-P1800E1000	GigaProntoNext link 1000BaseTX/FX Gigabit Ethernet IF 1400-1800m distance. POE power supply, installation kit, SNMP web management included.

## Electrical characteristics

Light source	LaserDiode
Laser diode power	8x35mW
Detector	SiAPD Photodiode
Dynamic range	>40dB
Bandwidth	100 Mbps
Management	Web based SNMP compatible in-band management
System latency	<50ns

## Physical characteristics

Head housing	Aluminium Alloy
Weight	26 kgs
Dimensions (with cover and alignment Unit, mm)	560x324x298

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

## Fade Margin @ 5000m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	31 dB
Medium visibility (Fog 8dB/Km Rain ~20mm/h)	6 dB

## Order Information

Product Code	Description
GD-3000E100TP	GD3000 link 100BaseTX Ethernet IF 2000-3000m distance. POE power supply, installation kit, SNMP web management included.
GD-4000E100TP	GD4000 link 100BaseTX Ethernet IF 3000-4000m distance. POE power supply, installation kit, SNMP web management included.
GD-5000E100TP	GD5000 link 100BaseTX Ethernet IF 4000-5000m distance. POE power supply, installation kit, SNMP web management included.

# PX-G/ SuperGig SYSTEMS

## Electrical characteristics

Light source	LaserDiode
Laser diode power	8x25mW
Detector	SiAPD Photodiode
Dynamic range	>40dB
Bandwidth	Gigabit Ethernet Mbps
Management	Web based SNMP compatible in-band management
System latency	<50ns

## Physical characteristics

Head housing	Aluminium Alloy
Weight	26kgs
Dimensions (with cover and alignment Unit, mm)	560x324x298

## 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

## Fade Margin @ 3000m

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	34 dB
Medium visibility (Fog 10dB/Km Rain ~30mm/h)	12 dB

## Order Information

Product Code	
<b>PX-P2200E1000</b>	PXG-2200 link 1000BaseTX/FX Gigabit Ethernet IF 1800-2200m distance. POE power supply, installation kit, SNMP web management included
<b>PX-P2600E1000</b>	PXG-2600 link 1000BaseTX/FX Gigabit Ethernet IF 2200-2600m distance. POE power supply, installation kit, SNMP web management included
<b>PX-P3000E1000</b>	PXG-3000 link 1000BaseTX/FX Gigabit Ethernet IF 2600-3000m distance. POE power supply, installation kit, SNMP web management included
<b>GD-3000E1000</b>	SuperGig link 1000BaseTX/FX Gigabit Ethernet IF 2000-3000m distance. POE power supply, installation kit, SNMP web management included



Your Geodesy FSO distributor:



simplifying networks

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