

# 100Mb 650-1800m Laser Link



## Electrical characteristics

Light source	Laser Diode
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	12 kg
Dimensions (with cover and alignment Unit)	560x324x298 mm

## 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
Laser head 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	POE injector

## 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
PX1800FT	100Mb TX Ethernet IF 650-1800m distance laser head. POE power supply, installation kit and SNMP web management included.
PX1800FTH	100Mb TX Ethernet IF 650-1800m distance laser head. POE power supply, installation kit and SNMP web management included with heater.

Redefining wireless

\* values / end

