

100 Mb 100-500m Auto Focus Laser Link



Electrical characteristics

Light source	Laser Diode
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	8 kg *
Dimensions (with cover and alignment Unit)	390 x 258 x 290 mm *

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
Laser head 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	POE injector

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

Order Information

Product Code	Description
PXAF500FT	100Mb TX Ethernet IF 100-500m distance laser link. POE power supply, installation kit and SNMP web management included, with Auto Focus.
PXAF500FTH	100Mb TX Ethernet IF 100-500m distance laser link. POE power supply, installation kit, SNMP web management included and with Auto Focus and with heater.

Redefining wireless

* values / end

