

G3 500-1500m Auto Tracking FSO Link



Features

- Wireless upto 1500m communication
- Max 3.125Gbps bandwidth Full Duplex
- Auto tracking system $\pm 3^\circ$ circular compensation
- Auto focus system—automatic beam divergence setting 0,5 mrad
- SNMP compatible management
- Rugged design for harsh wireless environment communication

Electrical characteristics

Light source	Laser diode
Laser diode power	1x30 mW
Detector	SiAPD Photo diode
Dynamic range	>17 dB
Bandwidth	1.25 - 3.125 Gbps Full duplex
Management	Web based SNMP compatible management
System latency	<50ns

Physical characteristics

Head housing	Aluminium alloy
Weight	23 kg *
Dimensions (with cover and alignment Unit)	690 x 320 x 360mm *

Optical characteristics

Wavelength	785 nm
Beam divergence	0,5 mrad, Auto Focus Function
Receiver angle	6 mrad
Laser class	Class 1M
Power to the head	48V Power Supply

Environment

Operating temperature	-40 to +60 °C
Storage temperature	-60 to +80 °C
Humidity	95% non condensed
Laser head protection rating	IP65

Fade Margin

Normal visibility (Fog 3dB/Km Rain ~6mm/h)	1500m
Medium visibility (Fog 15dB/Km Rain ~50mm/h)	1000m
Low visibility (Fog 30dB/Km Rain ~130mm/h)	650m

Order Information

Product Code	Description
PXAT1500HM	G3 Gigabit FO/Multimode connection 500-1500m distance laser link. 48V power supply, installation kit and SNMP web management included.
PXAT1500HMH	G3 Gigabit FO/Multimode connection 500-1500m distance laser link. 48V power supply, installation kit and SNMP web management included with heater.
PXAT1500HS	G3 Gigabit FO/Single mode connection 500-1500m distance laser link. 48V power supply, installation kit and SNMP web management included.
PXAT1500HSH	G3 Gigabit FO/Single mode connection 500-1500m distance laser link. 48V power supply, installation kit and SNMP web management included, with heater.

Redefining wireless

* values / end

