



## PTP FSO Links



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## UniFSO100 Digital Free-Space Optics (FSO) Link

- Full duplex
- 100 Mbps
- 100BaseT Interface
- 99.99 – 99.999% availability at recommended ranges

**The UniFSO100** series of point-to-point Free Space Optics (FSO) products provides true 100Mbps full duplex optical wireless links that directly connect to any LAN switch, hub or card with a 100BaseT interface without the need of an extra media converter.

The VCSEL or Laser based products in the UniFSO100 series support communication ranges of up to 4Km (2.5miles) in fair weather conditions with high availability ranges of up to 1.25Km (0.8 mile) in most environments.

Common applications include: mobile backhaul infrastructure, competitive local access networks, ISP and WiFi backhaul, metropolitan video surveillance, wireless community systems and enterprise or campus networks.

## System Features

All specifications subject to change without notice

### General:

- Full duplex, true 100Mbps
- Simple, sturdy construct and operation, competitively priced
- A standard Indoor Unit (IDU) remotely monitors FSO head operation.
- IDU featuring dry contacts for interfacing to third party SNMP compliant equipment.
- Optional SNMP compliant Monitoring unit
- Fast, easy deployment and installation
- Powered by standard -48VDC

### Power Supply:

- Power can be supplied through communications TP cable eliminating the need for remote AC power outlet at FSO head installation point.

### Available FSO/WiFi Hybrid:

- This solution provides for up to 3km range high speed links (100 Mbps by the FSO link with WiFi backup) with 100% overall system availability. Data traffic is automatically switched to an WiFi backup should the FSO link become temporarily inoperable and automatically switches back once FSO service is restored.

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# Specifications

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System		400A	400B	500	700	1000
<b>Recommended Range</b>	17 dB/Km	250 m	400 m	600 m	900 m	1250 m
<b>Recommended Range</b>	30 dB/Km	200 m	350 m	450 m	600 m	830 m
<b>Transmitter Beam Divergence</b>		3 mRad (typical)				
<b>Receiver Field of View</b>		10 mRad (typical)				

## Payload

<b>Protocol</b>	.....	Ethernet 100 Base-T (supports full duplex, non-autonegotiating)
<b>Bit Rate</b>	.....	100 Mbps
<b>Interface</b>	.....	100 Base-T RJ-45 non-autonegotiating
<b>Bit Error Rate</b>	.....	Less than 1E-9 (unfaded)

## Mechanical / Environmental

<b>Dimensions</b>	(W x D x H) .....	300 x 300 x 400 mm
<b>Weight</b>	.....	15 Kg
<b>Operating Temperature</b>	.....	-20° to +70°C (standard); -40° to +70°C (optional)
<b>Environmental</b>	.....	100% all-weather
<b>Power Adaptors</b>	.....	48V DC
<b>Connector</b>	.....	RJ-45
<b>Diagnostic Indicators</b>	.....	Link, RCV, XMT, PWR, SSI

\* Each link includes the following: 2 transceiver units, 2 power adaptors, 2 basic mounting kits, 2 pan and tilt units, 2 connection and monitoring boxes.

\* Minimum ranges apply to all models.