



**Redline 25SR**  
**Redline 25STD**  
**Redline 100SR**  
**Redline 100STD**

## Standard Series

The Redline Standard Series of FSO products provides you with the most economical FSO connectivity solution available today.

Due to modular replacement parts, this series ensures the most cost-effective maintenance and support of all FSO products on the market. Providing high bandwidth robust operation, our Standard FSO series is the product of choice for short to medium range 10/100 Mbps connectivity solutions and is ideally suited for the following applications:

- Ethernet data connectivity
- Fast Ethernet data connectivity
- Voice Over IP connectivity
- IP video connectivity

### SPECIFICATIONS OF THE REDLINE STANDARD SERIES PRODUCTS

#### REDLINE 25SR/STD

Transmission rates	10-25 Mbps (data rate transparent)
Transmission standards	Ethernet (10Mbps)
Interface options	10 Base-T

#### REDLINE 100SR/STD

Transmission rates	10-100 Mbps (data rate transparent)
Transmission standards	Fast Ethernet (100Mbps)
Interface options	100 Base-FX, 100 Base-T

#### REDLINE 25/100SR

<b>Deployment Range:</b>	
3db/km = Light rain (5-10mm/hr) - Light haze - Scintillation	300 m (984 ft)
5db/km = Medium to heavy rain (15-20mm/hr) - Haze	300 m (984 ft)
10db/km = Heavy rain to cloudburst (45mm/hr) - Light snow - Light fog	300 m (984 ft)
17db/km = Cloudburst (100mm/hr) - Medium snow - Light fog	300 m (984 ft)
30db/km Extreme rain (135mm/hr) - Blizzard - Medium fog	290 m (951 ft)

#### REDLINE 25/100STD

<b>Deployment Range:</b>	
3db/km = Light rain (5-10mm/hr) - Light haze - Scintillation	1400 m (4593 ft)
5db/km = Medium to heavy rain (15-20mm/hr) - Haze	1180 m (3871 ft)
10db/km = Heavy rain to cloudburst (45mm/hr) - Light snow - Light fog	880 m (2887 ft)
17db/km = Cloudburst (100mm/hr) - Medium snow - Light fog	660 m (2165 ft)
30db/km Extreme rain (135mm/hr) - Blizzard - Medium fog	470 m (1542 ft)

#### FIBER-OPTIC INTERFACE

Interface type	1310 nm, Multi-mode fiber, ST connectors
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#### MECHANICAL / ELECTRICAL / ENVIRONMENTAL

Laser output power	< 250 mW
Receive aperture	12.5 cm (5 in)
Operating temperature	-10°C to 55°C
Environmental seal	Water and dust tight
Dimensions (WxHxD)	35 cm x 33 cm x 40 cm (14 in x 13 in x 16 in)
Weight of head	13.5 kg (29.8 lbs)
Input voltage	42 to 54 VDC or 90 to 264 VAC
Power consumption	30 watt



## Standard Series

The Redline Standard Series consists of the following products:

### Redline 25SR:

Short Range FSO with deployment range of up to 300 m and transmission rate of 25 Mbps

### Redline 25STD:

Medium Range FSO with deployment range of up to 1400 m and transmission rate of 25 Mbps

### Redline 100SR:

Short Range FSO with deployment range of up to 300 m and transmission rate of 100 Mbps

### Redline 100STD:

Medium Range FSO with deployment range of up to 1400 m and transmission rate of 100 Mbps

### ELEMENT MANAGEMENT AND CONTROL

Management interface	RS 232 (DB9 connector), GSM
Installation control program	Redlink Diagnostic terminal program
Management control	Mobile phone SMS interrogation, GSM Management Monitor Centre
Key parameters monitored	Receive signal strength, Power supply current and voltage, Transmit link on/off, Receive link on/off, Internal temperature

### CERTIFICATIONS AND CLASSIFICATIONS

Laser safety	IEC 60825-1 Class3B
Electrical and EMC	EN 50082-1, EN 61000-3-2, EN55022 Class A, IEC - 950

### ORDERING INFORMATION

#### FSO Terminals

	Part Number
Redline 25SR: Short Range 25 Mbps FSO Transceiver	RE-LK-25SR
Redline 25STD: Standard Range 25 Mbps FSO Transceiver	RE-LK-25STD
Redline 100SR: Short Range 100 Mbps FSO Transceiver	RE-LK-100SR
Redline 100STD: Standard Range 100 Mbps FSO Transceiver	RE-LK-100STD

#### Power Supplies

Redline 240 (90 - 264)VAC Power Supply Unit	MC-PSU-240
Redline 48 (42 - 54)VDC Power Supply Unit	RE-PSU-48

#### Interfaces

Media Converter 10/100BaseT (MM 1310nm)	TN-MC-100
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#### Mounting Brackets

Plinth Bracket (Roof mount)	EX-BR-PL
L-bracket (Wall & pole mount)	EX-BR-LB
Pedestal (Raised mount)	EX-BR-PD

#### Management

Remote GSM Monitoring Option	RE-MAN-RM
GSM Management Monitor Centre	RE-MAN-TGS
GSM Management Monitor Centre yearly license	RE-MAN-TGSL

#### Installation Tools

Alignment tool for Redline Standard Series (set of 2 units)	RE-IT-ATS
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