



Long Range-E Series

Redline 1250FE

The Redline Long Range-E Series of FSO products provides transmission speeds at Gigabit data rates while maintaining robust operation and carrier class availability. Our Long Range-E FSO series is the product of choice for medium to long range connectivity for the following applications:

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

SPECIFICATIONS OF THE REDLINE LONG RANGE-E SERIES PRODUCTS

	REDLINE 1250FE
Transmission rates	100-1602 Mbps
Transmission standards	Gigabit Ethernet
Interface options	1000 Base-SX, 1000 Base-LX, 1000 Base-T
Deployment Range:	
3db/km = Light rain (5-10mm/hr) - Light haze - Scintillation	2040 m (6693 ft)
5db/km = Medium to heavy rain (15-20mm/hr) - Haze	1630 m (5348 ft)
10db/km = Heavy rain to cloudburst (45mm/hr) - Light snow - Light fog	1130 m (3707 ft)
17db/km = Cloudburst (100mm/hr) - Medium snow - Light fog	830 m (2723 ft)
30db/km Extreme rain (135mm/hr) - Blizzard - Medium fog	580 m (1903 ft)

FIBER-OPTIC INTERFACE

Interface type	SFP
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MECHANICAL / ELECTRICAL / ENVIRONMENTAL

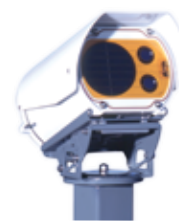
Laser output power	320 mW
Receive aperture	10 cm (4 in), effective clear
Operating temperature	-30°C to 60°C
Environmental seal	Water and dust tight, IP66
Dimensions (WxHxD)	25 cm x 33 cm x 46 cm (10 in x 13 in x 18 in)
Weight of head	10 kg (22 lbs)
Input voltage	22 to 47 VDC or 100 to 240 VAC
Power consumption	50 watt

ELEMENT MANAGEMENT AND CONTROL

Management interface	RS 232 (DB9 connector), Ethernet (100 Base-T connection)
SNMP	V.1 Agent
Installation control program	Terminal Craft Program
Management control	3rd party SNMP managers
Key parameters monitored	Receive signal strength, Power supply current and voltage, Laser powers, Laser temperature, Internal temperature

CERTIFICATIONS AND CLASSIFICATIONS

Laser safety	IEC 60825-1 Class1M
Electrical and EMC	EN 55024, EN 60950, EN 55022



Long Range-E Series

The Redline Long Range-E Series consists of the following product:

Redline 1250FE:

Long Range FSO of up to 2040 m and transmission rate of 1602 Mbps

ORDERING INFORMATION

FSO Terminals

Redline 1250FE: Long Range FSO Transceiver

Part Number

FE-LK-1250

Power Supplies

Power Supply: 100-240 VAC option for 1250FE

FE-PSU-240

Power Supply: 22-57 VDC option for 1250FE

FE-PSU-48

Interfaces

I/F Module - SFP - 1000 Base-SX for 1250FE

FE-MC-LX

I/F Module - SFP - 1000 Base-LX for 1250FE

FE-MC-SX

Intelligent 1000 Base-T to 1000 Base-FX (Multi-mode SC Fiber Convertor 850nm)

TFC-1000MSC

Intelligent 1000 Base-T to 1000 Base-FX (Single-mode SC Fiber Convertor 1300nm)

TFC-1000S20

Mounting Brackets

Pedestal mount for 1250FE

FE-BR-PD

Wall / Pole mount for 1250FE

FE-BR-WM

Management

SNMP Option for 1250FE

FE-MAN-SE

Installation Tools

Installation kit (per terminal)

FM-IT-IK

Cabling kit (per terminal)

FM-IT-CK

Alignment tool kit

FM-IT-ATS