

OptiLink System

Description

The OptiLink System is a long range fiber optic extension system for camera link cameras.

Features

Attaches directly to the connector at the back of the camera (no Camera Link cables required)

Sends data to a frame grabber

Two OptiLink System modules are used to form a fiber optic extension cord

Long range, up to 300 meters standard at 1.25 gigabaud, 10 kilometers with extended range option

Electrically isolates camera from computer

Data rates approaching 250 megabytes per second when operating at 2.5 gigabaud; can approach 750 megabytes per second in full-mode configurations



Applications

Intelligent traffic systems
Manufacturing/inspection
Security
Remote scientific monitoring
Medical
Nuclear
Multimedia
Astronomy

Main Product Specifications

Compliance:

Bit Rate Over Fiber -

**Maximum Data Bandwidth Over Fiber -
Range -**

Optical Power Budget -

Camera Link Pixel Clock Ranges -

Power -

Fiber Optic Connector Type -

Wavelength Used Over Fiber -

Laser Safety -

Indicator -

1.25 and 2.5 Gbaud, field selectable

Approximately 250 megabytes per second

100 meters to 10 kilometers or more. Varies with fiber used, 1.25 vs. 2.5 Gbaud selection, number of fiber

optic interconnects, which transceiver is stuffed

Standard 850 nm transceiver minimum launched power is -10dBm, receiver sensitivity is -15 dBm maximum, so can lose a maximum of 5dB in the fiber.

20 to 60 MHz, 60 to 80 MHz (field selectable)

4.75 to 18 V DC, 3 watts max

LC duplex

850 nm (1300 nm extended range option available)

Class 1

One LED, shows the state of the fiber optic link

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Configuration - May be configured in the field for these modes of operation:
Camera pixel clock rate up to 80 MHz
Fiber optic link data rate: 1.25 Gbaud or 2.5 Gbaud
Camera vs. frame grabber end if used as an extension cord

Fiber Optic Cables - Ordering option: 62.5/125 micron MMF for standard 850 nm transceiver is recommended (use 8/125 micron SMF with 1300 nm extended range option). Both use LC duplex transceivers.

Physical:

Dimensions - 1.575" x 0.75" x 2.33" (the LC fiber needs an additional 2.2" beyond the box for a 90 degree bend)

Weight - 4 oz.

Power Supply

Dimensions - 2.4" x 4.5" x 1.5"

Weight - 10 oz.

Input - 100-240 V
50-60 Hz from AC mains

Output - 5 V DC
1 A

Connector - Switchcraft 760 K (option for Latching 7-pin, Lemo FGG.OB.307.CLAD.56 for auxiliary UART port or other

EU Compliance - CE
Low Voltage Directive 73/23/EEC
EMC Directive 2004/108/EC

Environment

Temperature - Operating: 0 degrees to 40 degrees C
Non-operating: -20 degrees to 60 degrees C

Humidity - Operating: 20 to 80% non-condensing at 40 degrees C
Non-operating: 95% non-condensing at 40 degrees C

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Ordering options are listed below. To order, contact our sales department or your distributor. Be sure to specify which cable will be needed (if any).

Part No.	Length in Meters	TYPE
CLOL-XXS	XX	Standard Cable
CLOL-XXI	XX	Industrial Rugged Cable
CLOL-XXH	XX	High Flex Cable