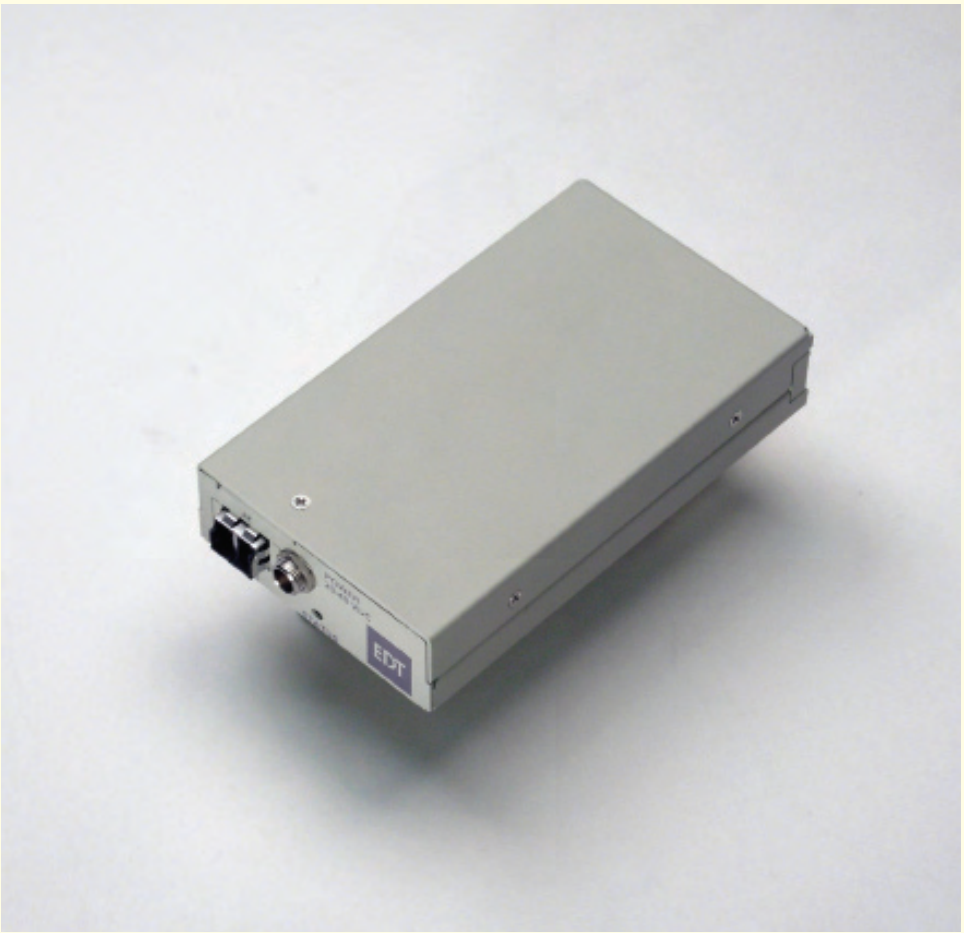
edt
a HEICO company

RCX LVDS/RS422

Remote camera extension adapter for AIA to fiberoptic



Description

The RCX LVDS/RS422 is a remote camera extension module that adapts AIA (LVDS or RS422) data from a digital camera to fiberoptic cable. The camera can be located up to 10 kilometers from the host computer.

The module has a 68-pin connector to support a wide range of AIA cameras.

A module pair can be used to create a long-range fiberoptic connection to an EDT or third-party framegrabber. Alternatively, an EDT direct-from-fiber (FOX) framegrabber can be used, eliminating the need for a module at the computer end.

Line or frame triggering is supported over camera control lines..

Features

- Module adapts AIA (LVDS/RS422) data to a fiberoptic interface
- Accepts images of any resolution; sends data to a fiberoptic interface to send to host via DMA
- Can join with a second module to form a fiberoptic extension cord
- Allows remote operation – camera can be located up to 10 km from host
- Provides electrical isolation between camera and host
- Supports data rates up to 125 MB/s
- Can connect directly to an EDT FOX board

Applications

- Astronomy
- Aerial mapping
- Computer microscopy
- Intelligent traffic systems
- Manufacturing / inspection
- Remote scientific monitoring
- Medical and nuclear imaging
- Image archiving
- Machine vision
- Multimedia
- Security

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Specifications

Product Type	RCX LVDS/RS422 is a remote camera extension adapter for AIA to fiberoptic; typically it is used with a PCI or PMC DV FOX interface.		
Memory	FIFOs for up to several lines of data; no frame memory		
Data Rates	Fiber operates at 1.33 Gb/s, passing video data at up to 125 MB/s.		
AIA Compliance	Supports most AIA format (LVDS/RS422) cameras that provide line- and frame-valid signals and a continuous pixel clock.		
EU Compliance	CE RoHS WEEE		Contact EDT Contact EDT WEEE directive 2002/96/EC
Laser Safety	Class 1		
Noise	0 dB		
Transceivers	One (wavelength 850 nm or optional 1310 nm), with duplex LC		
	Wavelength 850 nm 850 nm 1310 nm	**Cable** 62-µ MMF 50-µ MMF 9-µ SMF	**Range at 1.33 Gb/s** 300 meters 500 meters 10 kilometers
Triggering	Via CC lines		
Power	Less than 5 W at 24 V		
Cabling	Cabling is purchased separately; consult EDT for options.		
Physical	Weight Dimensions		10.1 oz. typical 4.5 x 2.7 x 1.0 in. (requires an additional 2.2 in. for a 90° bend for the LC)
Environmental	Temperature Humidity		Operating 10° to 40° C; extended -40° to 60° C Non-operating -40° to 60° C Operating 20% to 80%, non-condensing at 40° C Non-operating 95%, non-condensing at 40° C
System and Software	System requirements and EDT-provided software driver packages are discussed in the specifications for your framegrabber.		

Ordering Options

- Signal levels: **LVDS** or RS422
- Transceivers: **850** / 1310 nm
- Power adapter: **110** / 220 V
- Cabling: Camera-specific
- Environmental: Extended temperature

Bold is default. **Ask about custom options.**