**Overview**

The **Remote Fiber-Optic Camera Extension System** enables frame acquisition from a remote camera at a distance of up to 40 km without repeaters. The remote camera connects directly to the extension module that transmits the camera image over fiber optic cables to either a GiDEL PCIe Proc board mounted in a host computer or to a GiDEL RCLGR module that can connect to any user frame grabber. Connection to the Proc board offers a number of options including:

1. Image acquisition and processing using GiDEL open source ProcFG grabbing and processing system.
2. Retransmission of the signal in other protocols such as SDI, DVI, HDMI, CoaXPress, etc.


Also available, RCxP extension system for connecting up to four CxP6 channels over Fiber Link.

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**Key Features**

- 2 SFP+ Transceiver modules each at 6.144 (or 6.25GHz) for up to full duplex of ~ 12.5Gb/s (10Gb/s net transfer rate)
- Maximum distance with no repeaters: 40Km
- Direct connection to GiDEL’s Frame grabbers / Proc Boards, thus reducing server infrastructure cost and components
- Camera Link Medium or Dual Base data on a single SFP+ link
- Camera Link Full mode at an average line transfer rate of up to 4.8Gb/s on single SFP+
- All camera Link modes, including 80-bit mode, at maximum transmission rate via two SFP+ links
- A remote RS232 via an SDR connector
- Status LEDs indicating power, link connection, transmission activity, and user defined functionality
- Link BER less than 10-12, control BER less than 10-18
- 4 remote opto-coupler inputs
- Mounts on to wall or any device box
- For Proce* boards, option for outputs such as SDI, HDMI, etc.