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Kaya Instruments Komodo 10GigE Vision Frame Grabber

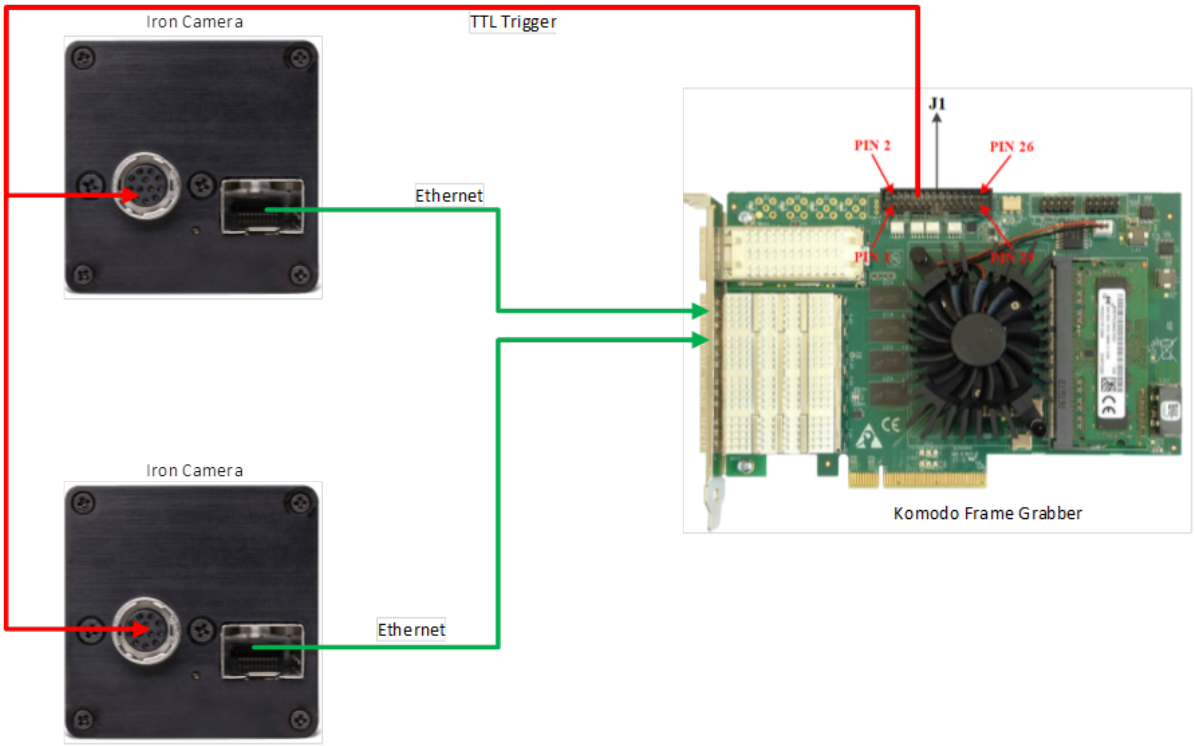
External trigger implementation

10GigE Vision does not allow internal synchronization, so this is achieved externally as follows (see sketch):

1. Connect a cable between the IO connector of the camera and J1 of the frame grabber
2. Connect GND of the camera to GND on the frame grabber
3. Connect camera TTL inputs to one TTL output of the frame grabber
4. The trigger cable can also be connected to external source instead of frame grabber

In the Kaya Vision Point SDK

5. Configure the camera to receive a trigger from TTL input
6. Configure the frame grabber Timer 0 to generate pulses at the same frequency as the desired frame rate
7. Configure a TTL output on the frame grabber to output Timer 0 pulses.



Link aggregation

Link aggregation is implemented by setting the camera to use regular links (a virtual camera on each link) and then output part of the image on every link.