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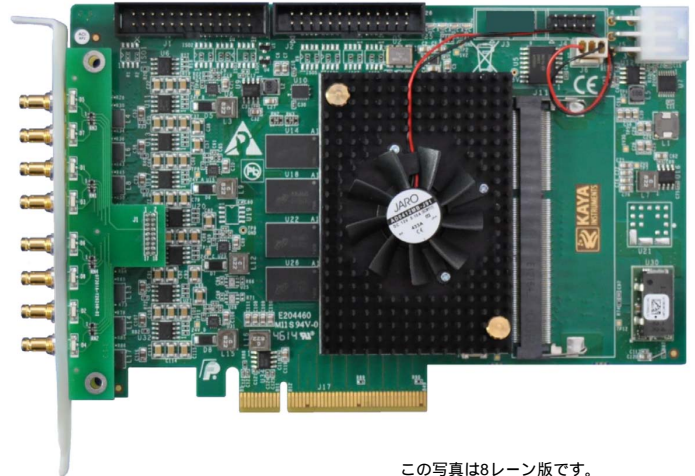
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Komodo - CoaXPress™ Frame Grabber

Overview

Komodo is best in class Frame Grabber supporting CoaXPress standard. The Komodo is capable of receiving video streams from up to 8 CoaXPress links in single, dual, quad or octal modes. It is used for simultaneous capture from up to two quad link cameras. Each link supports standard CoaXPress bitrates up to 6.25 Gbps. This CoaXPress Frame Grabber is ideally suited for industrial, defense and aerospace Machine Vision Systems and applications. The Komodo can easily receive video streams on the CoaXPress links and transmit them to computer memory through the PCIe interface. This product also provides GPIO for machine control signals, such as triggers, shaft encoders, exposure control and general I/O, which can be control aside video stream acquisition.

The Komodo uses standard DIN connectors as a CoaXPress interface to the camera and standard 100 mil headers for general purpose I/O. The Frame Grabber utilizes PCIe Gen3 x8 links for communication with Host PC for video uploading and configuration.



この写真は8レーン版です。

Applications

- ✓ AOI
- ✓ Printing inspection
- ✓ 3D, VR
- ✓ Broadcasting and sports analytics
- ✓ High-speed DVRs

2015年9月の販売開始から、多くの実績をあげています。たとえば8ch版 KY-FGK-800を8枚利用した64個のカメラ入力を行うシステム。8レーン出力の40Gbps帯域のデータを1枚のボードで受信するシステムなど。強力なGUIアプリとカスタムアプリ開発用APIは無償で添付しています。

About CoaXPress



CoaXPress is a new digital transmission standard that allows high speed data from a device, such as a camera, to be transferred to a host, such as a frame grabber. Each CoaXPress link supports up to 6.25 Gbps data rates, along with device power up to 13W and device control at 20 Mbps – all on a single coax cable. For very fast devices, the links can be aggregated to provide multiples of the single coax bandwidth. Long cable lengths are supported – up to 40 meters at 6.25 Gbps and over 100 meters at 3.125 Gbps.

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仕様は、予告なく変更する場合があります。最終価格、条件は見積で決定します。

Features

- 1 to 8 CoaXPress links support
- PCIe Gen3 x8 Half-length card
- Up to 144 Gb image buffer
- Multi-stream support
- Camera controls and triggers
- Up to 4 re-transmit links
- Per-link LED indication on card bracket
- Flexible machine I/O:
 - 8 TTL configurable I/Os
 - 8 LVCMOS configurable I/Os
 - 4 LVDS inputs
 - 4 LVDS outputs
 - 8 opto-isolated outputs
 - 8 opto-isolated inputs
 - 8 quadrature rotary encoders
 - Integrated strobe controller
- CoaXPress V1.1 compliant
- Power over CoaXPress with 13W per link
- Multiple Camera synchronization
- Multiple Frame Grabbers synchronization
- DIN 1.0/2.3 connectors for CoaXPress links
- GUI interface
- Supporting Windows and Linux OS
- API for developing custom applications
- Plug-ins modules for Matlab, HALCON and Labview
- Gen<i>Cam compliant
- GenTL support
- Data rates up to 6.25 Gbps per link
- Transfer Rate of up to 64 Gbps
- 0°C to 50°C operating environment temperature

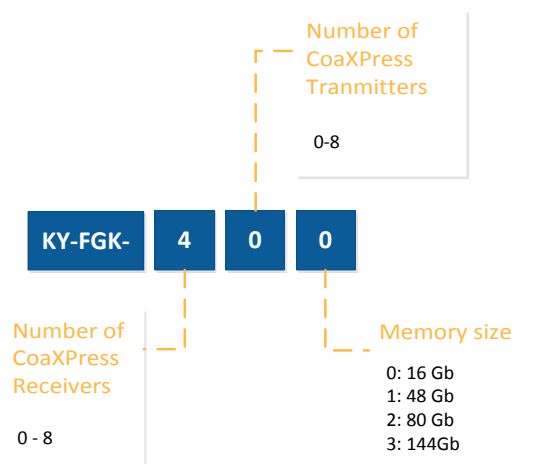
On board processing

- LUT operators with selectable bit depth
- RGB and Bayer with selectable bit depth
- Tap re-ordering
- H/V flipping
- Custom processing engines

Deliverables

- CoaXPress Komodo Frame Grabber
- Hardware user manual
- Software installation CD
- Coax cables (optional)
- GPIO Extension Panel (optional)

Ordering Code



Notes:

1. Maximum of Receiver and Transmitter channels together is 8
2. Custom models available on request

注意：KY-FGK-400,KY-FGK-800,KY-FGK-440が標準品です。ただしご利用内容によってはSODIMMメモリが必要です。またこのカタログはフレームグラバボードとしてのものです。FPGAボードは仕様異なるので、別途事前にお問合せください。

CoaXPress CXP-6 4レーンを安定してキャプチャするために PCIe Gen3 x8 対応のKomodo CoaXPress をご利用ください。2016年1月からKY-FGK-400 を標準在庫で販売しています。

ハイエンドの画像処理向けには4レーン入力/4レーン出力品、超高速センサには8レーン入力版もお試しく下さい。CXP-3に限定した8カメラ接続可能な廉価バージョンも別途対応可能です。。

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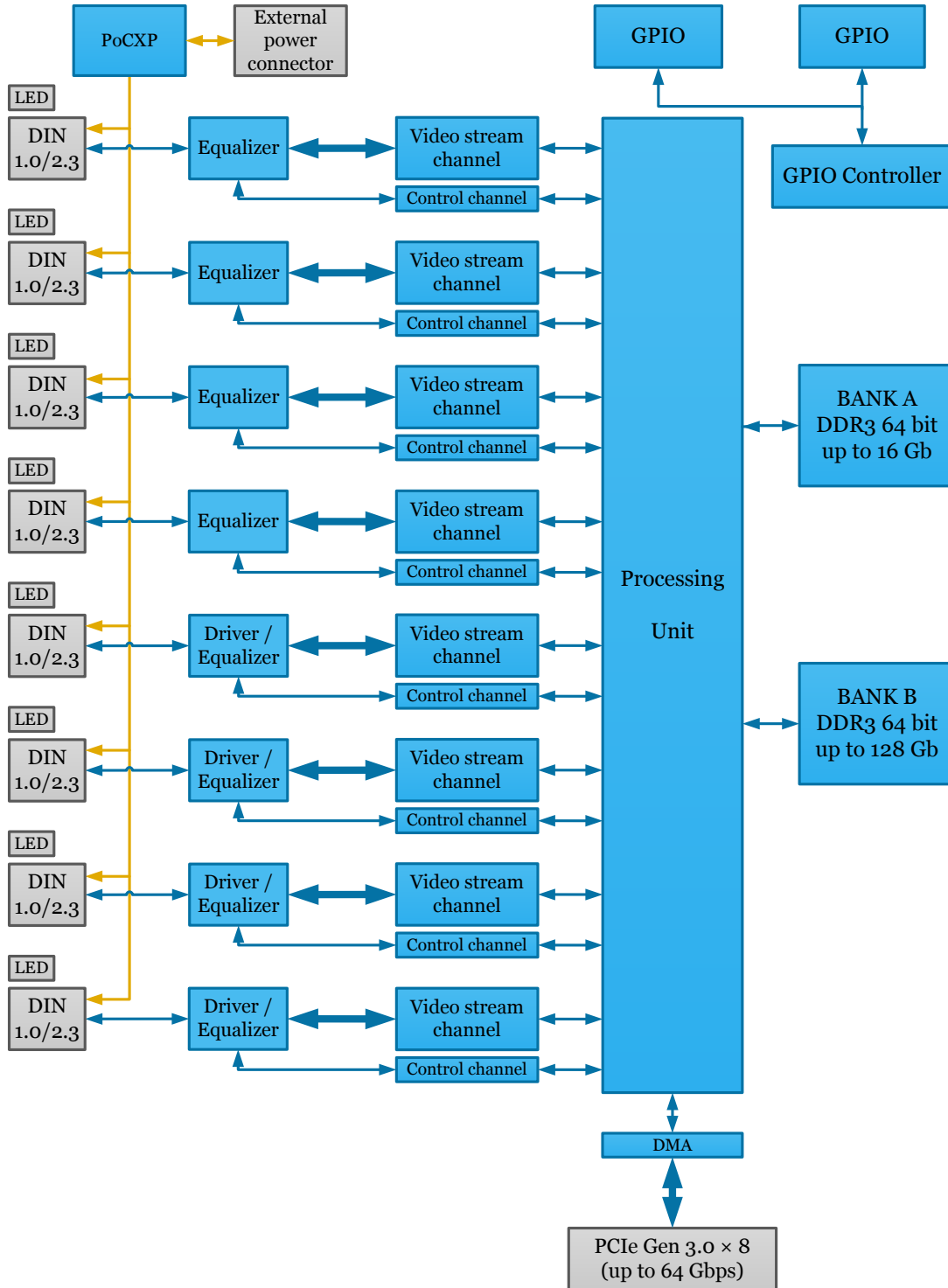
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Komodo Frame Grabber HW Block Diagram



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