

CAMERA LINK EXPRESSCARD/54 VIDEO CAPTURE CARD



Features

- Supports two independent Base Camera Link interfaces or one Medium Camera Link interface
- ExpressCard/54 interface (x1 lane PCIe) providing 2.5 Gbps of bandwidth
- Uses intelligent scatter/gather DMA for fast, efficient use of ExpressCard bandwidth
- Bayer pattern interpolation
- Adjustable RGB gain/offset and auto-white balance
- Selectable window sizes
- Built-in programmable CC pulse generator
- Plug-n-Play with hot insertion/removal

Applications

- Industrial
 - Silicon wafer and PCB inspection
 - Machine vision
 - Document scanning
- Medical
 - Ultrasound
 - X-Ray, CT and MRI
- Security
 - Police in-car surveillance
 - Biometric identification
- Military
 - Aerial mapping/survey
 - Battlefield imaging
 - UAV, Robotic vision

The success of the FrameLink and VCE series of PCMCIA frame grabbers has positioned Imperx as the world's leading supplier of frame grabbers for laptops. Using this experience as leverage, we have developed the FrameLink Express, a Camera Link frame grabber designed especially for ExpressCard laptops. It provides the functionality, performance and versatility required by today's most demanding vision systems. The FrameLink Express is a highly versatile frame grabber capable of acquiring images from two independent Camera Link Base cameras or a single Medium camera. It features a flow-through pipelined architecture with an intelligent scatter/gather DMA engine providing over 200 MBytes/s of throughput. A full software suite, including drivers and an application program, is provided with the card. An optional C/C++ SDK is also available.

MOBILITY... CONVENIENCE... PERFORMANCE...
ExpressCard FRAME GRABBERS

Specifications for FrameLink Express

Features	<p>Simultaneous acquisition from two Camera Link Base cameras or one Medium camera</p> <p>ExpressCard/54 compliant</p> <p>PCIe x1 lane providing 2.5 Gps of bandwidth</p> <p>Intelligent scatter/gather DMA</p> <p>Flow-through pipeline architecture</p> <p>Dynamic buffer allocation</p> <p>Plug-and-play with hot insertion and removal</p> <p>Selectable window sizes</p> <p>Adjustable RGB brightness level and auto white balance</p> <p>Bayer pattern interpolation</p> <p>Built-in programmable CC pulse generator</p> <p>Captures single, multiple frames or AVI clips</p> <p>Normal or delay capture</p> <p>Date, time and text overlay</p> <p>BMP, TIFF or adjustable JPEG file format</p> <p>Image viewer with DVR Controls</p>
Video Source	<p>Two Camera Link inputs configured as dual Base or single Medium</p> <ul style="list-style-type: none"> • Uses two mini-CL connectors • 24 (for Base) or 48 (for Medium) video data bits plus strobes and clock (20 - 85 MHz) • 4 camera control bits (CC1 to CC4) per channel • Bi-directional serial interface per channel <p>Video Format</p> <ul style="list-style-type: none"> • Base: 1x8, 2x8, 3x8, 1x10, 2x10, 1x12, 2x12, 1x14, 1x16 and 3x8 (RGB24) • Medium: all of Base modes plus 4x8, 3x10, 4x10, 3x12, 4x12, 3x10 (RGB30) and 3x12 (RGB36) • Mono, Bayer Color and RGB Color
Software	<p>Application program: Full-featured, intuitive, easy to use GUI</p> <p>Drivers: Win XP/2000/Vista, DirectX, TWAIN, Labview, Matlab</p> <p>SDK: C/C++, COM, .NET, ActiveX - all with sample source code</p>
Environmental	<p>Operating temperature: 0°C to 65°C</p> <p>Relative humidity: 90% non-condensing</p>
Mechanical	<p>ExpressCard/54 form factor</p> <p>4.28" x 2.1" x 0.7" (108 x 54 x 18 mm)</p> <p>Weight 1.91 oz., (53.6 g)</p>
Regulatory	FCC 15 part B, CE, RoHS

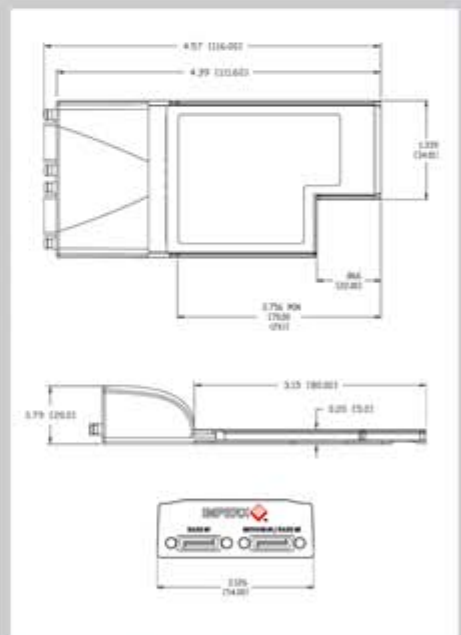
Description

The FrameLink Express is a professional, state of the art ExpressCard video capture card, allowing users to view and store in real time mega-pixel video images from Camera Link sources on their notebook computers. The FrameLink is capable of capturing single or multiple frames, and standard AVI clips from any Base or Medium Camera Link compliant video source. Each captured frame can be stamped with a user message along with the date and time of capture. The FrameLink Express offers easy to use camera configuration software, which allows for fast integration of the card into demanding machine vision environments.

Power Requirements

- 3.3V DC +/- 5%
- 500 mA steady
- 1.65W constant power

Mechanical Dimensions



Software



For specific details and ordering information, contact us at sales@imperx.com.
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