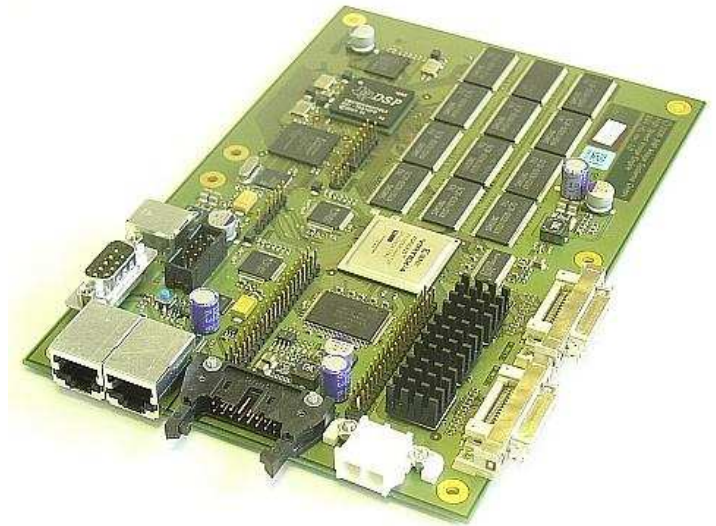


Image Processing Board IE64_HS

Technical description:

- Based on DSP TMS32C6414 / 1GHz
- two physical camera inputs
(serial interface or CameraLink)
- up to 2400 MB/s serial interface to camera
- output interface USB 2.0 up to 21 MB/s
- up to 768 MB SDRAM
- 7x RS232 interfaces cameras and transport
- Up to 100 MB/s through an expansion slot and BAP/PCI board
- multistream images (color plus bitonal)
- output images in YUV 4:4:4, YUV 4:2:2, YUV 4:2:0 or RGB
- flexible output image format: color/grayscale
JPEG, JPEG2000, TIFF grayscale
- USB driver and DLL for MS Windows (32bit and 64bit) and Linux

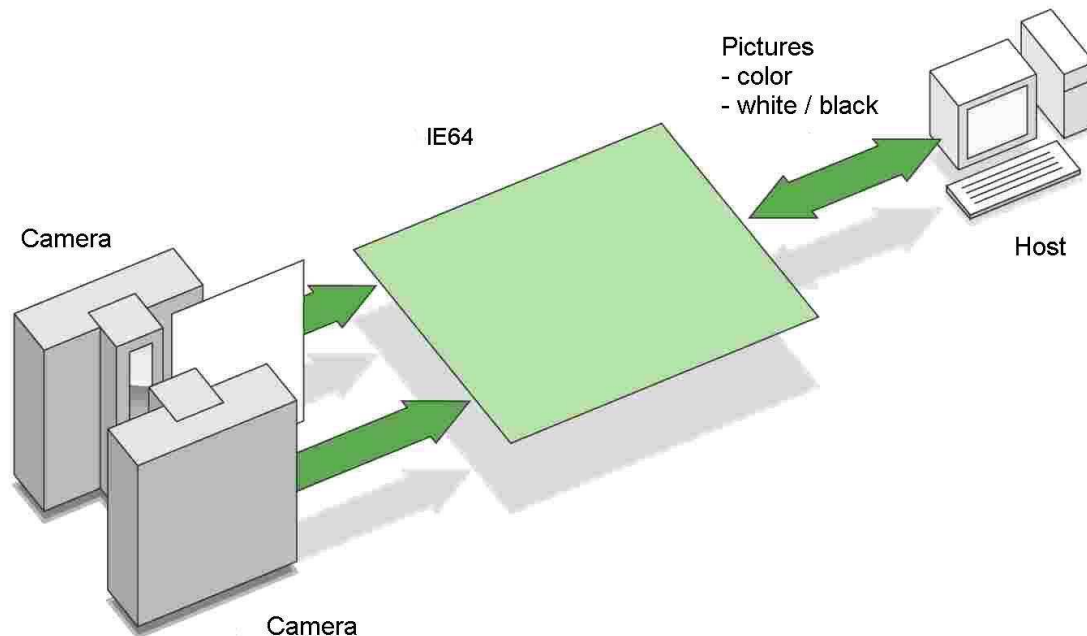


Advantages:

- suitable for high-speed scanners
- simplex (one camera) or duplex (two camera) mode
- all image processing functions embedded in IE64_HS, making the solution independent from hosts
- low amount of data to be transferred to the host
- software customization available
- up to 600ppm DIN A4/200dpi simplex, multi-stream (b/w TIFF G4 and color JPEG)
- up to 280ppm DIN A4/300dpi simplex (b/w TIFF G4 and color JPEG)



Image Processing Board IE64_HS



The IE64_HS, based on the DSP and FPGA has two camera inputs (serial or CameraLink) and is able to acquire many images simultaneously. The customized firmware rotates, crops, binarizes and compresses (according to CCITT Group IV, JPEG and JPEG2000) the acquired images. The processed images are sent to the host through USB 2.0 interfaces. MS Windows drivers are supported. Other drivers can be custom specified. The IE64_HS can be installed as embedded system in any device, which has to perform complicated image processing functions in a limited timeframe.

The IE64_HS was designed to work with digital color cameras from BAPis and third party cameras (CameraLink interface). IE64_HS can be used in high-speed duplex color scanners up to 600ppm DIN A4/200dpi simplex.

BAP Image Systems (BAPis) is a dependable and reliable imaging products and solution provider with highly proven industry experience. BAPis develops and manufactures cameras based not only on high speed CCD and CMOS line sensors, but also on area CMOS/CCD sensors. BAPis cameras are used in the Machine Vision industry as well as in the film industry. Additionally, BAPis develops and produces image grabbers and processing boards based on DSP and FPGA technologies using its own algorithms. Image processing boards are matched with camera performance and, when combined, are able to reach the highest possible throughput.

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