

Image Processing Board IE64_57

Technical description:

- based on DSP TMS32C6457 /1GHz
- two physical camera inputs
(serial interface or CameraLink)
- up to 1200 Mbs serial interface to camera
- output interfaces (USB2.0 and optional USB3.0, Ethernet...)
- memory: 512MB DDR2 plus 1GB DDR2
- 7x RS232 interfaces cameras and transport
- multistream images (color plus bitonal)
- FPGA, DSP and ASIC based image processing
- output image format: JPEG, JPEG2000, Goup IV
- drivers and DLL:
 - Windows 2000/XP/Vista/7 (32bit or 64bit system)
 - Linux
 - others possible

Advantages:

- suitable for high-speed scanners
- all image processing functions embedded in IE64_57, making the solution independent from hosts
- low amount of data to be transferred to the host
- software customization available
- up to 1000ppm DIN A4 /200dpi simplex, multistream (b/w and JPEG or JPEG2000)

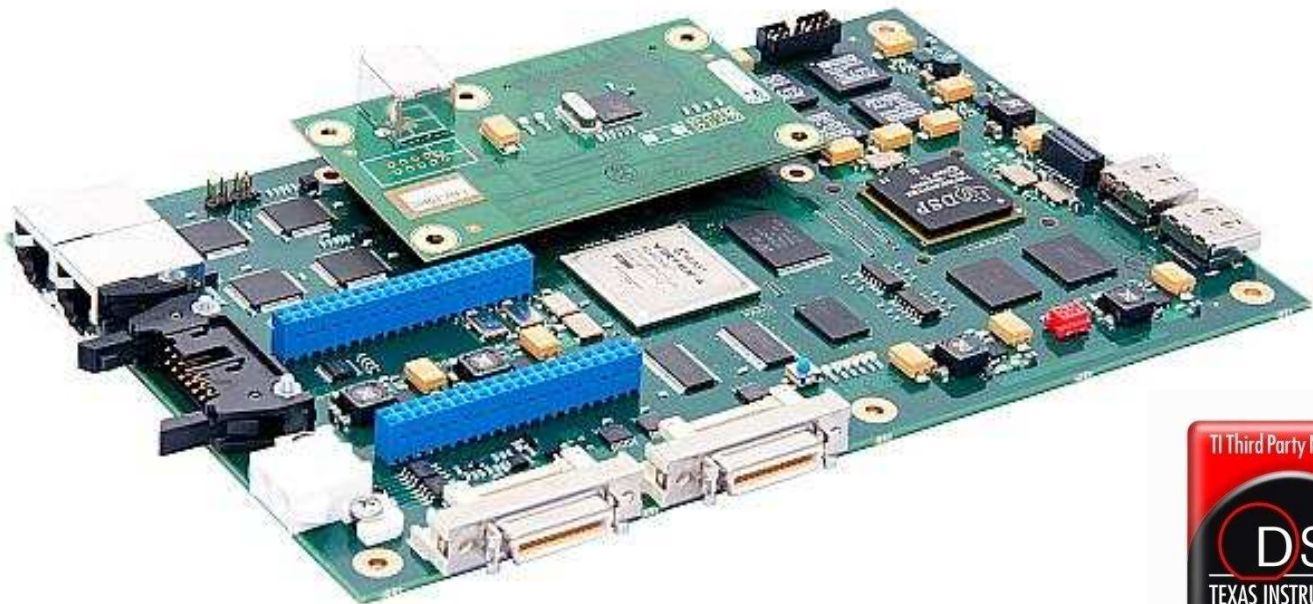
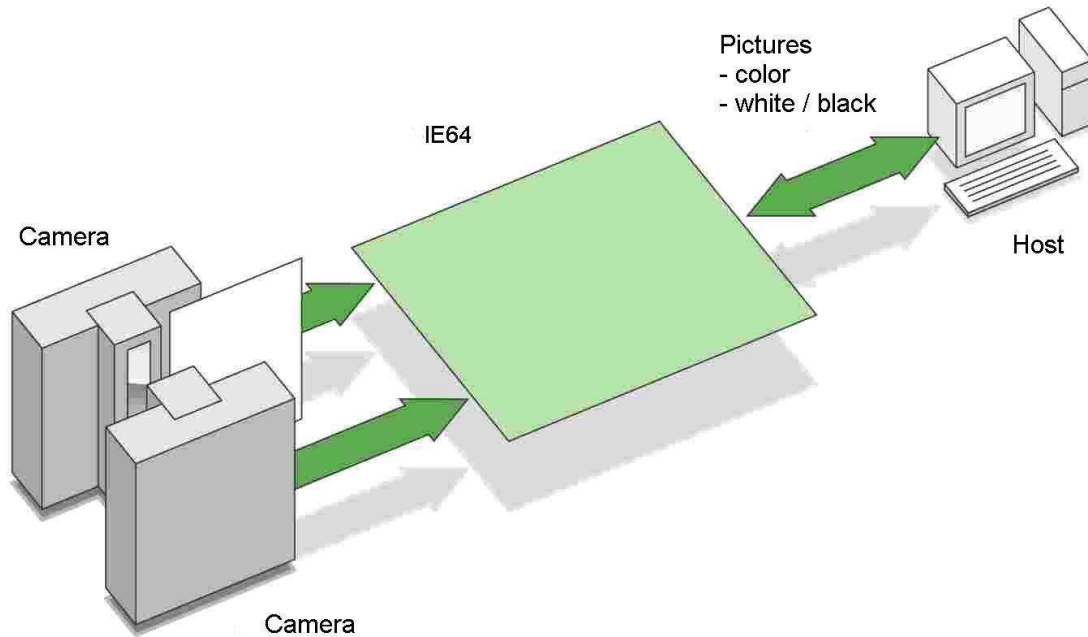


Image Processing Board IE64_57



The IE64_57, based on the DSP, FPGA and ASIC, has two double 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 however, USB 3.0 or Ethernet interfaces are also available options.

Windows 2000/XP/Vista/7 or optional Linux drivers are supported. Other drivers can be custom specified. The IE64_57 can be installed as an embedded system in any device, which has to perform complicated image processing functions in a limited timeframe.

The IE64_57 was designed to work with digital color cameras from BAPis and third party cameras (CameraLink interface). IE64_57 can be used in high-speed duplex color scanners up to 1000ppm 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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