INT-1462

Frame Grabber with 4 CVBS Inputs, 1 Audio Line & 24 GPIO

Features

General Features:

Architecture:
PC/104-Plus compliant

Video Decoder:
Conexant Fusion™ 878A (CX25878A), PC99 Compliant

Inputs:
4 Composite Video Inputs (1 configurable as S-Video)

Video Decoding Formats:
- NTSC
- PAL
- SECAM

Output Resolutions:
- NTSC: 640x480, 320x240, or 720x480
- PAL/ SECAM: 768x576 or 384x288

Acquisition Rate:
- 30 fps (NTSC)
- 25 fps (PAL / SECAM)

Input Formats:
- NTSC-M
- PAL-B
- PAL-G
- PAL-H
- SECAM

Output:
Multiple YCbCr and RGB pixel formats and YUV planar pixel formats

VBI Data Capture:
For Closed Caption, Teletext and Intercast Data Decoding

Scaling:
Horizontal & Vertical up to 16:1 in X and Y Directions

Filters / Scalars:
Advanced Chrominance and Luminance Comb Filters / Scalars (6-tap Luminance / 2-tap Chrominance)

Other Features:
- One Mono Audio Input
- Programmable Image Brightness, Contrast, Saturation and Hue
- Complex Clipping of Video Source and VGA Video Overlay

RoHS:

- Fully RoHS (2002/95/CE) Compliant.



The INT-1462 video frame grabber is a cost-effective, high-performance solution for capturing analog broadcast signals across the PCI bus. Based around the Conexant Fusion™ 878A video decoder, this compact PC/104-Plus form factor board supports NTSC, PAL, and SECAM video formats at capture resolutions of up to 768x576 pixels and 30 frames per second. It also has the ability to sub-sample, scale, crop, and clip images at various resolutions and frame rates.

Capturing and then digitizing video in YCbCr, RGB, and YUV Planar pixel formats from up to four devices (one input channel at a time), the INT-1462 module can support four CVBS composite inputs, or three composite video and one S-Video (Y/C) input source. The board also accepts one audio input and includes 24 flexible digital I/O channels, which can be configured for digital video input, high-speed MPEG stream transport, or to input / output general board-level signals to or from the PC/104-Plus bus (for remote camera control).

Potential applications are: placing video data directly into the host memory for video capturing or into the frame buffer of a video display for video overlaying. It can also be used as a multimedia hub of an Embedded PC system connecting multiple analog and digital video sources to the CPU module via a single PCI connection. Sample applications include remote video surveillance, medical and industrial imaging, motion detection, traffic monitoring, PC / digital television, digital VCR, desktop videophone, still frame capture and VBI data service.

INT-1462

Applications

- Video capture
- Still frame capture
- Multimedia hub of Embedded PC system
- Mobile DVR
- Vertical blanking interval (VBI) data service

About Eurotech

Eurotech delivers embedded computer systems for high capability and low power applications, networking and wearable computing solutions, and application framework middleware for multimedia, industrial, transportation, medical, and wireless applications. Eurotech platforms allow OEM and enterprise customers to focus on their core revenue-generating products and services and get to market quickly.

Physical Characteristics

DIMENSIONS	90 x 96 mm (3.6” x 3.8”)
POWER SUPPLY	Single +5V DC +/- 5%
POWER CONSUMPTION	1.25 W (typical)
OPERATING TEMPERATURE	0 ~ +60°C standard
	-40 ~ +85°C optional
HUMIDITY	Up 95% non-condensing

Options

- Conformal Coating
- Custom Connectors
- Extended Operating Temperature Range

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