Magewell 11250 Pro Capture Hexa CVBS Six-channel SD capture card

Supported OS

- Windows
- Windows 7/8/8.1/10/Server 2008/Server 2008 R2/Server 2012/Server 2016 (x86 & x64)
- Linux (support x86, x64 & ARM architecture)
 - Ubuntu 12.04/14.04/16.04/17.04/17.10 (x86 & x64)
 - CentOS 6.5/7 (x86 & x64)
 - Fedora 25/26/27 (x86 & x64)
 - Red hat 6.5 and above (x86 & x64)
 - Other Linux OS with kernel version 2.6.35 and above
- Mac
 - OS X 10.9/10.10/10.11
 - macOS 10.12/10.13

Recommended OS (tested)

- Windows
 - Windows 7 Ultimate/8.1 Enterprise/10 Enterprise/Server 2008 R2 DataCenter/Server 2012 R2 DataCenter/Server 2016 R2 DataCenter (x86 & x64)
- Linux
 - Ubuntu 12.04/14.04/16.04 (x86 & x64)
 - Ubuntu 17.04/17.10 (x64)
 - CentOS 6.5/7.2 (x86 & x64)
 - Fedora 25/26 (x64)
 - Red hat 6.5 (x86 & x64)
- Mac
 - OS X 10.9.5/10.10/10.11.2/10.11.3/10.11.4
 - macOS 10.12/10.13.2/10.13.3

Supported APIs

- Windows
 - DirectShow
 - DirectKS
 - Wave API/DirectSound/WASAPI
- Linux
 - V4L2
 - ALSA

Supported Software

- VLC
- VirtualDub
- OBS
- XSplit
- vMix
- VidBlaster
- Wirecast
- Microsoft Media Encoder
- Adobe Flash Media Encoder
- Any other DirectShow/V4L2 encoding/streaming software

Input Interfaces

- DB25
 - Composite video x6
 - Analog audio (L+R) x6

Host Interface

PCle Gen2 x1

Input Features

Support for input video resolutions up to 720x576 pixels

Composite Specific Features

- Support for NTSC, PAL and SECAM standards
- Auto detection of video input standard

Video Capture Formats

- Support for capture image resolutions up to 720x576 pixels
- Support for capture frame rates up to 30fps
- Support for 4:2:0 8-bit capture formats: NV12, I420, YV12
- Support for 4:2:2 8-bit capture formats: YUY2, YUYV, UYVY
- Support for 4:4:4 8-bit capture formats: V308, IYU2, V408, BGR24, BGR32
- · More capture formats are supported via Magewell Capture SDK for DirectKS

Video Processing Features

- Two video processing pipelines with ~180Mpixels/s processing bandwidth for each one
- Video cropping
- Video scaling
- Video de-interlacing
- Weave
 - Blend top & bottom field
 - Top field only
- Bottom field only
- Video aspect ratio conversion
 - Auto or manual selection of input aspect ratio
 - Auto or manual selection of capture aspect ratio
- Three aspect ratio conversion modes: Ignore (Anamorphic), Cropping or Padding (Letterbox or Pillarbox)
- Video color format conversion
 - Auto or manual selection of input color format & quantization range
 - Auto or manual selection of capture color format, quantization range & saturation range
 - Support for RGB, YCbCr 601, YCbCr 709 color formats
 - Support for Limited or Full quantization range
 - Support for Limited, Full & 'Extended gamut' saturation range
- Video frame rate conversion
- Video OSD composition
 - Support for PNG OSD image (up to 720x576)
 - Support for dynamic loading of RGBA OSD image via SDK

Multiple Cards per System

- Support for multiple cards plugged to one system
- On-board rotary switch to set card number, with 16 positions from 0 to F
- System hardware device tree will display "01: Pro Capture Hexa CVBS" when rotary switch is set to 1, and so on
- The video and audio device names displayed in your software will include the card number (set by the rotary switch)

Multiple Capture Streams

- Unlimited capture streams for any one input channel
- · Independent cropping, aspect ratio, color format, resolution, frame rate, de-interlacing and color adjustment settings for each individual stream

Ultra Low Latency Support

- · Latency of 64 video lines
- Partial notification mode in SDK

Timestamp & A/V Synchronization

- Hardware based 100ns high resolution clock
- Audio frames (192 audio samples) & video frames are stamped with hardware clock
- · Hardware clock can be synchronized across cards (via SDK)

Video Capture SG-DMA

- ~400MB/s per channel DMA bandwidth in PCIe 2.x system
- ~200MB/s per channel DMA bandwidth in PCIe 1.x system
- Support for auto detection of Intel tiled GPU surface
- Support for DirectGMA for AMD video adapter chipsets
- Support for GPUDirect for Nvidia video adapter chipsets

SDK

- Magewell Capture SDK for DirectShow for easy integration (Windows)
- Magewell Capture SDK for DirectKS for maximum flexibility & performance (Windows)

Windows Driver Tweaks

- · All options can be controled by three levels of registry key: global level, product level and device level
- Video, Audio, Crossbar filter names can be customized via registry keys

Firmware Upgrade

- Multiple cards in one system can be upgraded simultaneously
- · Cards can be upgraded without a system power shutdown (In most cases, even a reboot is not needed)
- Safe upgrade. If power off or system break down occur when the firmware is being upgraded, it will automatically restore to the initial version.

LED Indicator

 Status LEDs indicate the current state of each channel: idle, input signal locked (the indicator shows locked if one signal has been locked), memory failed or FPGA configuration failed.

Form Factor

- Low profile PCIe x1 Add-on Card
- 118.16mm x 68.88mm (without PCI bracket)

Accessories

- DB25 to Composite + Analog Audio breakout
- Low Profile bracket

Power Consumption

- Max current at 12V: TBD
- Max current at 3.3V: TBD
- Max power consumption: TBD

Working Environment

- Operating temperature: 0 to 40 deg C
- Storage temperature: â€"20 to 70 deg C
- Relative Humidity: 5% to 90% non-condensing