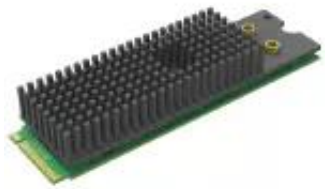
Dane aktualne na dzień: 25-04-2024 07:07

Link do produktu: https://www.wamm.pl/magewell-eco-capture-dual-sdi-m2-p-2226.html



Magewell Eco Capture Dual SDI M.2

Cena brutto	**1 918 zł**
Cena netto	**1 559 zł**
Dostępność	**Zapytaj o dostępność**
Kod producenta	**11530**
Producent	**Magewell**

Opis produktu

Eco Capture Dual SDI M.2

Two channel 2K capture card

- Captures SD/HD/3G/2K SDI x 2 + embedded audio
- High-speed interface with M.2 connector (PCIe Gen2) provides sufficient bandwidth for capturing multiple HD signals or one 4Kp30 signal.
- M.2 standard size of 22 x 80 mm (3.15 x 0.87 inch).
- Low Power Consumption. Power consumption 30%-70% lower (model-dependent) than standard Pro Capture cards with similar input(s).
- Multiple Replicated Capture Streams

Tech Specs

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

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)

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	• 2x MMCX ◦ SD/HD/3G SDI
Host Interface	

- M.2 2280 Type M (PCIe Gen2 x2)

Input Features

- Support for input video resolutions up to 2048×1080 pixels

SDI Specific Features

- Integrated cable equalizer supporting cable lengths up to 230M for HD signals
- Support for SD/HD/3Ga/3Gb/3Ga-DL/3Gb-DS standards
- Support for 2K (2048×1080) mode
- Support for RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2 color sampling
- Support for 10/12-bit color depth
- Support for extraction of SMPTE 352 payload identifier
- Support for up to 8 (mono) audio channels at 48KHz
- Support for extraction of audio formation information & channel status data
- Limited support of 3Gb-DS: only the first stream can be captured
- Limited support for capture of the first link of dual link interfaces:
    - YCbCr 4:2:2 10-bit 1080p 50/59.94/60: captured as 1080i 50/59.94/60
    - YCbCr 4:4:4 10-bit: captured as 4:2:2
    - RGB 4:4:4: R/B sub-sampled

Video Capture Formats

- Support for output image resolutions up to 2048×1080 pixels
- Support for capture frame rates up to 144fps (Actual capture frame rate can be limited by PCIe bandwidth. For the resolution of 1280×1024 and higher, the actual frame rate may be limited by the onboard video processing hardware pixel clock. For example, the maximum frame rate of 1920×1080 resolution can up to 80fps.)
- Support for 4:2:0 8-bit output formats: NV12, I420, YV12
- Support for 4:2:2 8-bit output formats: YUY2, YUYV, UYVY
- Support for 4:4:4 8-bit output formats: V308, IYU2, V408, BGR24, BGR32
- More output formats are supported via Magewell Capture SDK for DirectKS

Video Processing Features

- Video processing pipelines with ~180Mpixels/s processing bandwidth
- 8-bit 4:4:4 video processing
- 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, YCbCr 2020 color formats ◦ Support for Limited or Full quantization range ◦ Support for Limited, Full & 'Extended gamut' saturation range • Video frame rate conversion
Multiple Cards per System	
	• Support for multiple cards plugged to one system • On-board dip switch to set card number with 16 positions • System hardware device tree will display "01: Eco Capture Dual SDI M.2" when dip switch is set to 0001, and so on • The video and audio device names displayed in your software will include the card number (set by the dip switch)
Multiple Replicated Capture Streams	
	• Unlimited capture streams for any one input channel, but the capture streams should be in the same capture format.
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. This function is only available for firmware version 1.21 and above.
LED Indicator	
	• Status LEDs indicate the working state of each channel: idle, input signal locked, memory failed or FPGA configuration failed.
Form Factor	
	• M.2 2280 standard size
Accessories	
	• 2 X MMCX to BNC cables
Power Consumption	
	• Max current at 3.3V: ~ 1.00 A • Max power consumption: ~ 3.38 W
Working Environment	
	• Operating temperature: 0 to 40 deg C • Storage temperature: –20 to 70 deg C • Relative Humidity: 5% to 90% non-condensing

Magewell

Magewell was founded in 2011 as an R&D center and manufacturer of video capture devices. We have been breaking boundaries ever since, expanding our technologies to live streaming, encoding and playout as well as embedded systems for video processing. Our solutions are widely deployed around the world for applications including live streaming, broadcast production, video conferencing, lecture capture, medical imaging, security, machine vision, gaming, virtual reality production and many more.

In addition to empowering end-users, our products are also incorporated into a wide range of third-party solutions on an OEM basis by other industry-leading manufacturers. Our products are available globally through our valued channel partners including distributors, resellers and systems integrators.