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Link do produktu: https://www.wamm.pl/magewell-eco-capture-hdmi-4k-m2-jednokanalowa-karta-m2-przechwytujaca-4k-p-2227.html

Magewell Eco Capture HDMI 4K M.2 | Jednokanałowa karta M.2 przechwytująca 4K

Cena brutto	**1 876 zł**
Cena netto	**1 526 zł**
Dostępność	**Zapytaj o dostępność**
Kod producenta	**11520**
Producent	**Magewell**

Opis produktu

Magewell Eco Capture HDMI 4K M.2

Jednokanałowa karta M.2 przechwytująca 4K

Magewell Eco Capture HDMI 4K M.2 to jednokanałowa karta z gniazdem M.2 przechwytująca 4K po HDMI. Obsługuje przechwytywanie jednego sygnału HDMI do 4096×2160 pikseli z osadzonym dźwiękiem oraz wysokiej częstotliwości klatek do 144 fps. Karty te (22x80 mm) są przeznaczone do małych i przenośnych systemów, które nie mają miejsca na pełnowymiarowe gniazda PCIe.

Karty Magewell Eco Capture M.2 oferują wysokowydajne i potężne rozwiązania do przechwytywania wideo przy niskim zużyciu energii. Magewell SDK umożliwia deweloperom dostosowanie interfejsów API Magewell dla przechwytywania o niższym opóźnieniu oraz synchronizację kanałów między wielokanałowymi kartami przechwytu.

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

- JST SHD 20-Pin socket
  - DVI-D 1.0
  - HDMI 1.4

Host Interfaces

- M.2 2280 Type M (PCIe Gen2 x4)

Input Features

- Support for input video resolutions up to 4096×2160 pixels

HDMI Specific Features

- 297MHz HDMI receiver
- Adaptive HDMI equalizer
- Support for customized EDID
- Support for extraction of AVI/Audio/SPD/MS/VS/ACP/IRSC1/ISRC2/Gamut InfoFrames
- Full colorimetry support
- Support for RGB/YUV 4: 4: 4 8-bit format signals with a pixel frequency of no more than 297MHz
- Support for YUV 4:2:2 12-bit format signals with a pixel frequency of no more than 297MHz
- Support for RGB/YUV 4:4:4 10/12-bit format signals with a pixel frequency of no more than 170MHz
- Support for up to 8-channel IEC60958/IEC61937 audio streams
- Support for extraction of audio formation information & channel status data
- Support for extraction of video timing information
- Support for extraction of 3D format information
- Support for extraction of Sony/Canon DSLR time code
- Support for Side-by-Side Half, Top-and-Bottom, Frame Packing 3D mode.

Video Capture Formats

- Support for capture image resolutions up to 4096×2160 pixels
- Support for capture frame rates up to 144fps (Actual capture frame rate can be limited by PCIe bandwidth & image resolution)
- 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

- Video processing pipeline with ~360Mpixels/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 HDMI 4K 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	
	• ~1200MB/s per channel DMA bandwidth in PCIe 2.x system • ~800MB/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	• 1 X SHD to HDMI type A breakout
Power Consumption	• Max current at 3.3V: ~ 1.12 A • Max power consumption: ~ 3.75 W
Working Environment	• Operating temperature: 0 to 40 deg C • Storage temperature: –20 to 70 deg C • Relative Humidity: 5% to 90% non-condensing