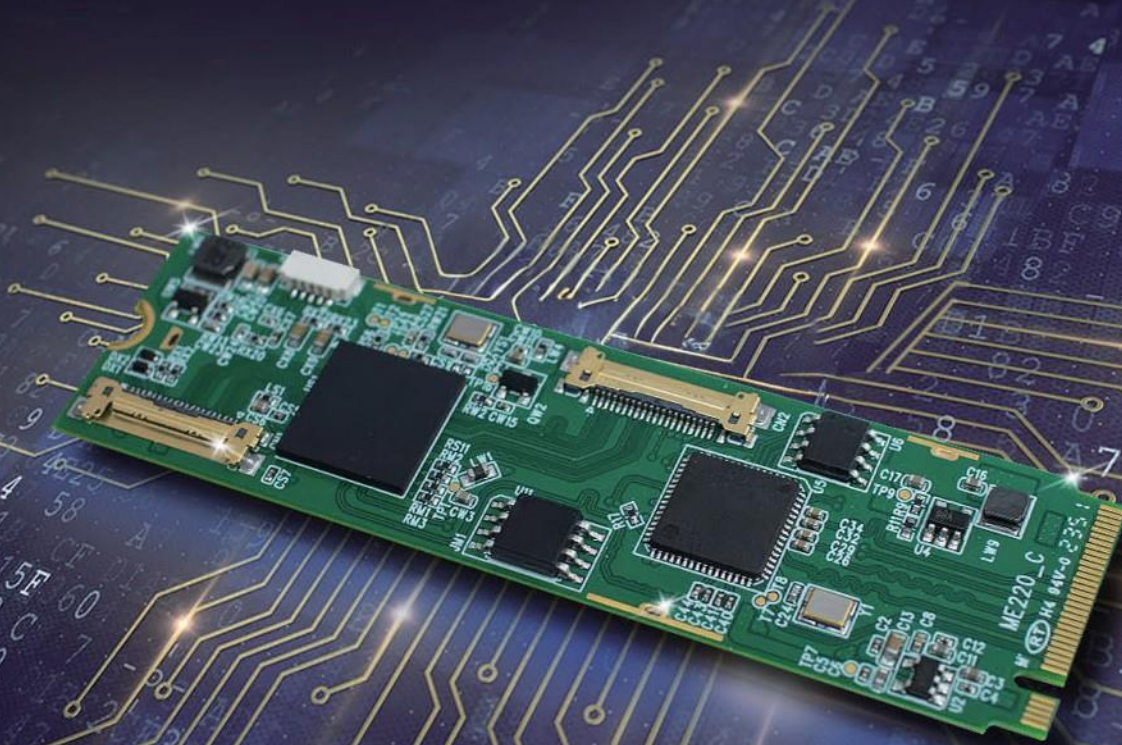


EVC-H411-2280-P2

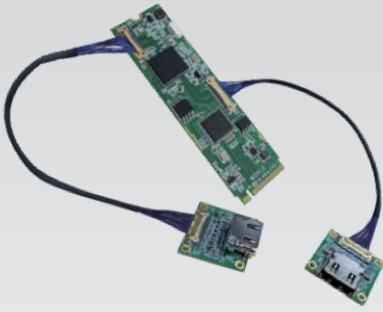
HDMI2.1 M.2 2280 Capture Card



Features

- Supports (RGB/YUY2/NV12) video capture resolution up to 4K2KP60
- Supports 1 channel HDMI input up to 4K2KP144
- Supports Hardware 3D de-interlace & scaler & Frame rate converter
- Supports HDR to SDR conversion
- Supports playing 4K HDR on HDMI out while streaming perfect 4K2KP60 with SDR colors for capture.
- Recording Video Format: Software or Hardware Compression
- Works on multiple operating system platforms (Windows 7/8.1/ 10/11, Mac and Linux OS)
- Low Latency uncompressed video preview
- Compliance with PCIe gen 2 x 4
- Support 4K2KP144 loop out (optional)

Introduction



The EVC-H411-2280-P2 is a professional video capture device with a standard M.2 2280 form factor. It features Scaler/De-interlace/Frame rate conversion, HDMI 2.1 loop-out, and HDR10 to SDR conversion. It supports up to 4K2KP144 resolution and allows users to capture Ultra HD (4K2KP60) video with realistic color rendition. The device utilizes large-volume image buffer technology to prevent from video tearing and ensures high sharpness, rich details, and minimal color edges in captured videos.

System Requirements (Recommended)



- Windows® 7(SP1) / Windows 8.1 / Windows 10 / Windows 11
- PC: Intel® Core i5-4440 3.10GHz + NVIDIA® GeForce® GTX 660 or higher
- Laptop: Intel® Core i7-4810MQ + NVIDIA GeForce GTX 870M or higher
- 4GB RAM or higher

Specifications

Model Name	EVC-H411-2280-P2
Technical	
Input Video Resolution (max)	3840x2160P144
Loop Out Video Resolution (max)	3840x2160P144
Output Bandwidth	PCIe gen 2 x 4
Capture Video Resolution (max)	3840x2160P60 (MJPEG) or 3840x2160P60 (NV12)
Audio Input	HDMI Embedded Audio PCM
Recording Mode	Software or Hardware Compression
Video Format	RGB/YUY2/NV12/MPEG
Audio Sampling Rate	32/44.1/48KHz
Color Depth	10 bit
Safety Certification	CE/FCC
Resolution table	
HDMI In	3840x2160P144/60/30, 2560x1440P144/60, 1920x1080P240/120/60, 1920x1080i60/50, 720P60/50, 480P, 576P, 480i, 576i, 640x480P60
Capure	3840x2160P60/30, 2560x1440P60/59.94/50/30/29.97/25, 2560x1080P60 1920x1080P120/60/59.94/50/30/29.97/25, 1280x720P60,720x480P60 640x480P60
RAW Formats	YUV422 8 bits: YUY2 YUV420 8 bits: NV12 RGB444 8 bits: RGB24 YUV420 8/10 bits: P010
Board Dimension	
Form Factor	M.2 Type 2280 M
PCB Size	22mm x 80mm
PCB Thickness	0.8 mm +/- 0.08mm
Thermal Specification	
Operating Temp.	32°F ~ 104°F (0°C ~ 40°C)
Storage Temp.	14°F ~ 176°F (-10°C ~ 80°C)
Power consumption	
Working Mode	2.8W
Sleep Mode	2.6W

M.2 B+M pin definition

Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	GND	39	GND	2	3.3V	40	N/C
3	GND	41	PETn0	4	3.3V	42	N/C
5	PETn3	43	PETp0	6	N/C	44	N/C
7	PETp3	45	GND	8	N/C	46	N/C
9	GND	47	PERn0	10	N/C	48	N/C
11	PERn3	49	PERp0	12	3.3V		
13	PERp3			14	3.3V		
15	GND			16	3.3V		
17	PETn2			18	3.3V		
19	PETp2			20	N/C	50	PERST
21	GND	51	GND	22	N/C	52	CLKREQ
23	PERn2	53	REFCLKn	24	N/C	54	N/C
25	PERp2	55	REFCLKp	26	N/C	56	N/C
27	GND	57	GND	28	N/C	58	N/C
29	PETn1	67	N/C	30	N/C	68	N/C
31	PETp1	69	N/C	32	N/C	70	3.3V
33	GND	71	GND	34	N/C	72	3.3V
35	PERn1	73	GND	36	N/C	74	3.3V
37	PERp1	75	GND	38	N/C		

Device connection

