

## CM311-H

Mini-PCIe 1080P 60FPS HDMI Frame Grabber



### Features

- Mini PCI Express form factor
- HDMI 1.4a input
- Max capturing/recording up to 1920x1080 60fps
- AVerMedia Video Engine technology inside

### Introduction

CM311-H is a Mini-PCIe HDMI frame grabber capable of capturing videos up to 1080p@60. With AVerMedia Video Engine technology inside, it can perform various video processing tasks such as frame rate conversion, de-interlacing, scaling and so on without consuming the computing power of the target platform.

It is endowed with full functions that are required to capture Full HD video for industrial and commercial markets such as data recorders, medical imaging devices, machine vision or any industrial imaging applications. The CM311-H design is committed to shorten the development schedule and provide integrators with a complete and rugged solution towards building their own applications.

### Mini PCIe Form Factor

The compact form factor design of a Mini PCIe card is perfect for small-footprint embedded systems. It is also ideal for solutions that need to be vibration-proof while the mounting holes makes it suitable for in-vehicle, military and industrial applications.

### Versatile SDK

AVerMedia software development kit (SDK), a set of development tools that allows a software engineer to seamlessly integrate video capture modules into application specific systems. Available upon request are the SDK Basic, SDK Pro and to better match each application's specific requirements premium add-on kits.

### Ordering Information

- CM311-H: Mini-PCIe 1080p 60FPS HDMI Frame Grabber
- Accessories:
  - 30 pin to HDMI adapter cable (optional)
  - Thermal pad
- SDK kits
  - SDK Basic
  - SDK Pro (optional)
  - SDK Premium Add-on Kits

## Connection Diagram



## Specifications

Host Interface	PCI Express Gen2 x1
Audio Interface	HDMI
Audio Format	HDMI embedded audio
Audio Sampling Rate	32KHz, 44.1KHz, 48KHz
Connector Type	SHLD 30 pin connector
Video Input Interface	HDMI
Video Format	YUV444: IYU2, AYUV, V410, Y410 YUV422: YUY2, YUYV, UYVY, V210, Y210 YUV420: I420, NV12, YV12 RGB: RGB565, RGB555, RGB24, RGB32, ARGB
Color Depth	8-bit/10-bit
Channel No.	1 Ch
Max. Input Resolution	1920 x 1080 60fps
Max. Recording Resolution	1920 x 1080 60fps

Encoding Mode	Software Encoding
Multi-Card Support	Yes
Supported OS	Windows 7/8.1/10 (32/64 bits), Linux (32/64 bits) *
Form factor	Mini PCIe
Dimension (L x W)	50.80 x 30 mm
Power Consumption	~ 4.0W
Operating Temperature	0°C ~ 50°C (by simulation)
Operating Humidity	5% ~ 80% Relative Humidity

All specifications are subject to change without prior notice.  
\* Linux support is coming soon.

### \* LinuxServices

- For availability on driver versions, please contact us
- Driver customization service by request