CE511-HN
4K HDMI 2.0 PCIe Capture Card

Features

- HDMI 2.0 input
- Real-time uncompressed video capturing
- Max resolution up to 4k (3840 x 2160 60fps)
- Hardware up/down scaling, de-interlacing, color space convert
- Automatic detection of input signals
- SG-DMA Transmission mode
- Multiple devices on one host
- Low latency

Introduction

The CE511-HN 4K HDMI 2.0 PCIe Gen2 x4 capture card is a reliable and pure HDMI solution for digital video capturing. Supporting HDMI 2.0 standard, the CE511-HN enables uncompressed and lossless real-time 4K (3840 x 2160 60 fps) video capturing. Seamless integration in vertical applications, such as: professional videoconferencing, broadcasting and digital signage or any application, which require super high video quality is easy through the use of the AVerMedia SDK. Windows and Linux driver support is included making the CE511-HN the best choice for all your capturing needs.

Real-time 4K 60 frames per second video capturing

Supporting the latest HDMI 2.0 standard, the CE511-HN is able to transmit 4K lossless video data through its PCIe Gen2 x4 data bus at an amazing 60 frames per second. With a 3840x2160 ultra high resolution and 60 frames per second capture rate, the CE511-HN can record the smallest details and capture fast motion for a remarkable and smooth playback.

Low latency

Capturing stunning uncompressed raw data and recording it with almost zero latency is made possible with the CE511-HN . Low latency pass from the moment the video source is captured, encoded, transmitted, decoded and displayed. This low latency is particularly beneficial for applications that require real-time solutions.
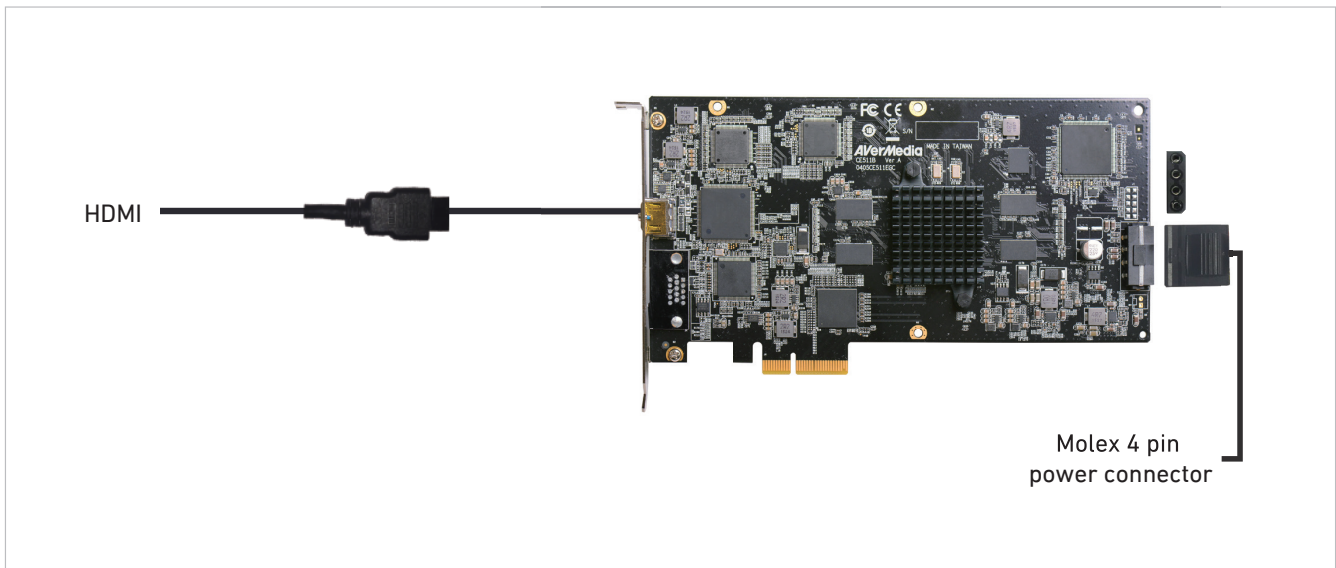
Hardware Scaling, De-Interlacing and Color Space Conversion

AVerMedia hardware-based video engine technology implements the most useful video processing functions, including de-interlacing for a sharper image and color space conversion for more true-to-life video color and scaling. This can help reduce the computing burden on hardware and software in order to focus on other important applications on hand.

ASSURED SYSTEMS

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Connection Diagram

HDMI

Molex 4 pin power connector

Specifications

Host Interface	PCIe Gen2 x4
Audio Interface	HDMI
Audio Format	PCM
Audio Sampling Rate	32KHz, 44.1KHZ, 48KHz
Connector Type	HDMI Type A
Input Interface	HDMI
Video Format	YUV 4:2:2, RGB24
Color Depth	8-bit
Channel No.	1 Ch (HDMI 2.0)
Max. Input Resolution	3840 x 2160 60fps
Max. Capturing Resolution	3840 x 2160 60fps

Encoding Mode	Software Encode
Multi-Card Support	Yes
Supported OS	Windows 7/8.1/10 (32/64 bits), Linux (32/64 bit) *
Form Factor	Full Height
Dimensions (L x W)	200 mm x 100 mm
Power Consumption	12W
Power Requirements	12V (Molex 4 pin peripheral power connector)
Operating Temperature	0°C ~ 40°C
Operating Humidity	5% - 80% Relative Humidity
Safety Certification	CCC / FCC / CE

* Linux Services
・Support Linux kernel 2.6.14 version and later based on V4L2 & ALSA framework
・Driver customization service by request

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 applications specific requirements premium add-on kits.

Ordering Information

- CE511-HN : HDMI 2.0 PCIe Capture Card
- Accessories
  - Quick Installation Guide
  - Installation CD
- SDK Kits
  - SDK Basic
  - SDK Pro (Optional)
  - Premium add-on kits (Optional)

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660