

AVerMedia

CL311-MN

PCIe Low Profile Full HD 60fps Multi-interface Capture Card



Introduction

The CL311-MN is a low profile PCI Express frame grabber card that supports 60fps full HD video capture and SDI pass-through output capability via a daughter board. The CL311-MN can ingest and capture SDI/HDMI/DVI/VGA sources up to full HD resolutions for monitoring, archiving or analyzing, offering more flexibility and possibilities.

CL311-MN is best suited for industrial and commercial applications such as data recorder, medical imaging, machine vision and other industrial imaging applications. Committed to shorten the development duration, CL311-MN provides integrators with a complete and rugged solution towards building their own applications.

Low Profile Form Factor

Suitable for small-footprint embedded platform, the compact low profile form factor design provides a better use of internal space and reduces cable routing. It increases the use of interior space for a more flexible heat spreading solution.

SDI Pass-through

The optional daughter board offers pass-through functionality where input video feeds can be simultaneously viewed on an additional display without consuming PC processing power and hardware resources.

PCI Express low profile form factor

- SDI/ HDMI/ DVI/ VGA video input interface
- Embedded SDI/ HDMI and analog L/R audio input interface*
- SDI output interface**
- Max capturing/recording 1920 x 1080 60fps

*Analog L/R and SDI video output interface via daughter board

**SDI output bypass from SDI input

Versatile SDK

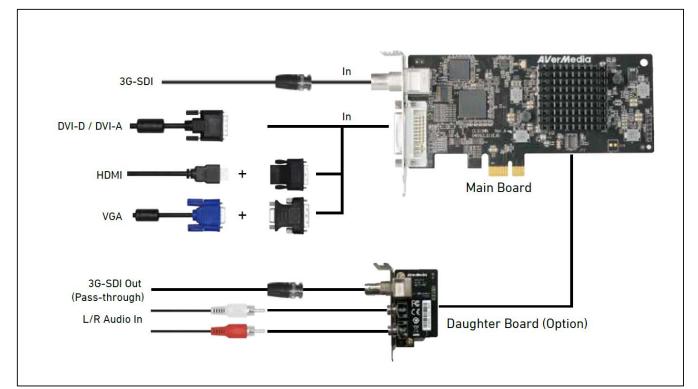
AVerMedia software development kit (SDK) is a set of free development tools that allows software engineers to seamlessly integrate video capture modules into application specific systems. SDK Pro and SDK Premium are available upon request, they offer professional grade functionalities to better match each application's specific requirements.



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Connection Diagram



Specification

| Host Interface | PCIe Gen2 x 1 |
|---------------------------|---|
| Audio Interface | SDI/ HDMI/ L R |
| Audio Format | Embedded SDI/HDMI;PCM |
| Audio Sampling Rate | Audio L/ R: 48KHz, 16bit HDMI: 32KHz/44.1KHz/48KHz, 16bit |
| Connector Type | BNC for SDI DVI-I for HDMI/DVI/VGA/RCA for LR |
| Video Input Interface | SDI/ HDMI/ DVI/ VGA |
| 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 |

| Multi-Card Support | Yes |
|-----------------------|---|
| Supported OS | Windows 7/ 8.1/ 10 (32/64 bits), Linux (32/ 64 bits) * |
| Form factor | PCIe Low Profile |
| Dimension (L x W) | 138 x 64.3 mm |
| Power Consumption | 5W |
| Operating Temperature | 0°C ~ 50°C |
| Operating Humidity | 5% ~ 80% Relative Humidity |
| Safety Certification | FCC/ CE |
| | |

photocopy, recording, or otherwise) without prior ce. Made in Taiwan

Software Encoding

All specifications are subject to change without notice.

* Linux Services

Encoding Mode

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

Ordering Information

- CL311-MN Main Board: PCIe Low Profile Full HD 60fps multi-interface Capture Card
- CL311-MN Daughter Board (Optional)
- · Accessories
 - DVI to HDMI connector
 - DVI to VGA connector
 - Ipex Cable (optional)
 - Audio Cable (optional)

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SDK Kits SDK Basic

- SDK Basi

itted in any form, or by any n

- SDK Premium Add-on Kits

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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.

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