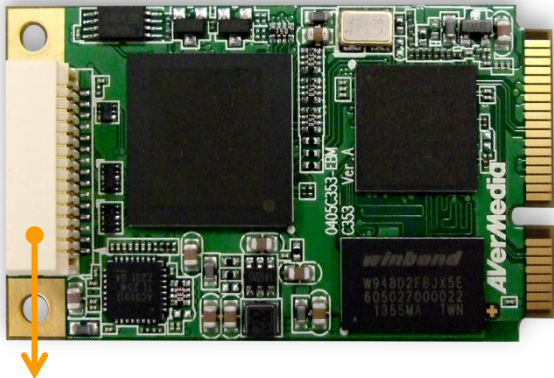
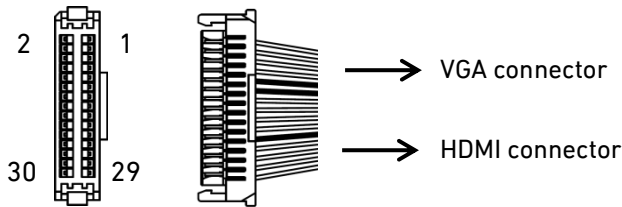


DarkCrystal HD Capture Mini-PCIe (C353)

Minicard, Video Capture with HDMI/ VGA, Up to 1080p60 input, H.264 HW Encoder



On board 30 pins connector









Features

- HD video capture with HDMI/ VGA input
- H.264 HW encoding minicard with standard dimension
- Support VESA video input up to 1080p60
- Up to 60Mbps encoding capability to preserve high video quality with low CPU loading
- Mainstream programming languages supported
- SDK available for customer to create customized applications
- Low power consumption

AVerMedia DarkCrystal HD Capture Mini-PCIe is a PCI Express Mini video capture card which is based on H.264 hardware compression which brings a HD capture while low CPU consumption solution to systems. With one adaptor daughter board, **DarkCrystal HD Capture Mini-PCIe** can ingest and capture HDMI and VGA input sources for monitoring, archiving or analyzing HD video content with more flexibilities and possibilities. Up to 60Mbps encoding capability, **DarkCrystal HD Capture Mini-PCIe** provides industry-leading HW encode performance that preserves the crystal-like video quality but maintains low CPU loading.

To expand the scope of application, **DarkCrystal HD Capture Mini-PCIe** supports mainstream programming languages and shipped with Software Development Kit that includes often-used functions such as de-interlace, video cropping, image/ video overlay, etc. It is endowed with full functions that required to performing HD video capture for industrial and commercial markets such as gaming PC, event data recorder, medical imaging, machine vision or any industrial imaging. **DarkCrystal HD Capture Mini-PCIe** commits to shorten the development schedule and provide integrators with complete solutions towards building their own applications.

Applications

- Gaming PC Screen Capture 
- Event Data Recorder 
- Interactive Whiteboard 
- Medical Imaging 
- Video Wall 
- Machine Vision 

■ AVerMedia SDK Feature Example



Frame by frame



● Capture to Buffer

Capturing video by frame for streaming to the Internet or saving as a new file. Further 3rd party codec can be employed.



● Text/ Time/ Image Overlay

Adding graphical/textual overlays or timestamps onto the video enables logos or other images shown on the screen.

● Advanced De-interlacing:

Eliminating the visual defects of interlaced video.

● Downscale Video Size:

Decreasing the video size to reduce CPU usage or to boost the efficiency of broadcasting or streaming.

● Upscale Video Size

● Noise Reduction

● Video Horizontal / Vertical Mirror

● Record in H.264, MPEG-2 or WMV Format:

Besides recording in the uncompressed AVI format, now users can have more choices for their video.

■ Specifications

| | |
|------------------------------|---|
| Module Type | PCI Express Minicard |
| Dimension | 50.8mm x 29.85mm |
| Video Input | HDMI VGA(D-Sub) DVI(HDMI Adaptor, optional) |
| Audio Input | Embedded HDMI |
| Resolution | Max. Input Resolution -1080p60 Max. Resolution Captured – 1080p30 VESA Resolution Supported |
| Captured Video Output | H.264 Transport Stream RAW video (YV12 4:2:0) |
| Color Adjustment | VGA: Brightness, Contrast, Hue (NTSC only), Saturation HDMI: not supported |
| Power Requirement | 2.5W |
| Operating Environment | Temperature: 0 to 55 °C Humidity: 0 to 80% RHNC |
| Storage Environment | Temperature: -30 to 65 °C Humidity: 0 to 90% RHNC |

■ System Requirements

● CPU

- Intel® Core™ 2 Duo 2.4GHz
- AMD Athlon™ 64x2 Dual Core 2.8GHz
- Intel® Core™ i5-2500(4 cores/3.3GHz) or above is required for WMV format recording

● VGA card compatible with DirectX 9.0c or above

● Standalone graphics card is recommended for HD video capturing

● SSD is required for AVI format recording

- Read: 200MB/s (or above)
- Write: 200MB/s (or above)
- System AHCI function needs to be activate
- SATA III interface on motherboard is required

● 2GB RAM

● PCI-E x1 Gen1 Slot

● Sound Card

● Windows® 8/7 (32/64-Bit)