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**HDC-302E**

***PCI Express Video/Audio Capture Card with Two Channel HDMI Inputs and Two Channel HDMI Outputs, 1920x1080@60p, and H.264 Hardware Codec***

2-channel HDMI input

***H.264 Hardware Codec***

***7/10***

Windows

***32/64***Bit

H.264

MPEG-4/AVC

PCIe Bus

2-channel HDMI output

# *Features*

HDC-302E-2018-V11

***Video Capture Solutions***

* 2-channel HDMI input with H.264 hardware compression and 2-channel HDMI output
* High quality video encoding or decoding up to 1080p60
* HDMI output port supports low-delay video pass through up to 1080p60, so you can check video while recording
* HDMI output port supports playback video file captured by HDC-30X

series cards

* Low power consumption
* SDK available for customer to create customized applications
* Windows/Linux OS supported

# *Specifications*

Interface

|  |  |
| --- | --- |
| Video Input | 2 channels |
| Video Input Type | HDMI |
| Audio Input | 2 channels |
| Audio Input Type | HDMI |
| Video Output | 2 channels |
| Video Output Type | HDMI |
| Audio Output | 2 channels |
| Audio Output Type | HDMI |
| Bus Interface | PCIe x1 |
| Loop Through | 2 channels |

Video Processing

|  |  |
| --- | --- |
| Video Compression | H.264/AVC High Profile Level 4.2 |
| Input Resolution & Frame Rate | 1920 x 1080 x 60p / 59.94p / 50p 720 x 480 x 60i /59.94i1920 x 1080 x 60i / 59.94i / 50i 720 x 576 x 50i1280 x 720 x 60p / 59.94p / 50p |
| Record Resolution / Frame Rate / Bit Rate | 1920 x 1080 x 60p / 59.94p / 50p, encoding video -bit rate from 6Mbps to 20Mbps1920 x 1080 x 60i / 59.94i / 50i, encoding video -bit rate from 6Mbps to 20Mbps1280 x 720 x 60p / 59.94p / 50p, encoding video -bit rate from 4Mbps to 20Mbps720 x 480 x 60i / 59.94i, encoding video -bit rate from 2Mbps to 10Mbps720 x 576 x 50i, encoding video -bit rate from 2Mbps to 10Mbps |

Functionality Audio Processing

|  |  |
| --- | --- |
| Multiple Card Support | 4 cards, 8 channels |

|  |  |
| --- | --- |
| Audio Compression | MPEG-1 Audio Layer 2 |
| Bit Rate | 256k |

# *System Block*

**HDMI**

**Out 1**

**HDMI**

**Out 2**

**HDMI**

**In 2**

**HDMI**

**In 1**

**HDMI**

**Tx**

**HDMI**

**Tx**

**FPGA**

**PCIe x1**

**Bridge**

**H.264 CODEC**

**H.264 CODEC**

**CPLD**

**HDMI**

**Rx**

**HDMI**

**Rx**

System Requirement

|  |  |
| --- | --- |
| System | x86 PC compatible computer, Intel® Pentium® 4 2.0GHz or above for video recordRecommends using a DXVA or CUDA capable graphics cardfor real-time video playback |
| Memory | 1GB or more |

Software Support

|  |  |
| --- | --- |
| OS Support | Microsoft Windows 7/10 (32-bit & 64-bit)Linux: Ubuntu 16.04 (64-bit) (Kernel version: 4.4.0-21 x64) |
| SDK | Windows: Provides SDK and demo program with samplesource codeLinux: Provides SDK and demo program with sample source code |

Others

|  |  |
| --- | --- |
| Dimensions | 155 mm x 98.6 mm |
| Operating Temperature | 0°C ~ 65°C, non-condensing |
| Power Consumption | 9.53W (12V@0.46A, 3.3V@1.21A) |

# *Packing List*

|  |
| --- |
| 1 x HDC-302E |
| 1 x QIG |

***Ordering Information***

|  |  |
| --- | --- |
| Part No. | Description |
| HDC-302E-R11 | PCI Express video/audio capture card with two channel HDMI inputs and two channel HDMI outputs, 1920x1080@60p, andH.264 hardware codec |