**HDC-304E**

## w w w . i ei w or l d .c om

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

1-channel HDMI output

***H.264 Hardware Codec***

4-channel HDMI input

***7/10***

***32/64***

H.264

HDMI output cable

PCIe Bus

# *Features*

Windows

Bit MPEG-4/AVC

* 4-channel HDMI input with H.264 hardware compression and 1-channel HDMI output
* High quality video encoding or decoding up to 1080p60
* HDMI output port supports playback video file captured by HDC-30X

series cards

* Enables the system to support up to 8-channel input by adding multiple video capture cards. The HDC-304E installed in IEI systems and backplanes could support over 8 channel inputs under Linux environment (supported capability may vary depending on customers’ needs).
* Low power consumption
* SDK available for customer to create customized applications
* Windows/Linux OS supported

# *System Block*

***Specifications***

Interface

|  |  |
| --- | --- |
| Video Input | 4 channels |
| Video Input type | HDMI |
| Audio Input | 4 channels |
| Audio Input Type | HDMI |
| Video Output | 1 channel |
| Video Output Type | HDMI output cable kit |
| Audio Output | 1 channel |
| Audio Output Type | HDMI output cable kit |
| Bus Interface | PCIe x1 |
| Loop Through | 1 channel |

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

**HDMI Out**

**HDMI**

**In 4**

**HDMI**

**In 3**

**HDMI**

**In 2**

**HDMI**

**In 1**

**HDMI**

**Rx**

**HDMI**

**Rx**

**HDMI**

**Rx**

**HDMI**

**Rx**

**PCIe x1**

**Bridge**

**CPLD**

**FPGA**

**H.264 H.264 CODEC CODEC**

**H.264 H.264 CODEC CODEC**

**HDMI**

**Tx**

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

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 sample source codeLinux: Provides SDK and demo program with sample sourcecode |

Others

|  |  |
| --- | --- |
| Dimensions | 230 mm x 116 mm |
| Operating Temperature | 0°C ~ 65°C, non-condensing |
| Power Consumption | 12.7W (12V@0.61A, 3.3V@1.63A) |

# *Packing List*

1 x QIG

1 x HDMI output kit

1 x HDC-304E capture card

***Ordering Information***

|  |  |
| --- | --- |
| Part No. | Description |
| HDC-304E-R11 | PCI Express video/audio capture card with four channel HDMI inputs and one channel HDMI output,1920x1080@60p, andH.264 hardware codec |

HDC-304E-2019-V10

***Video Capture Solutions***

|  |  |
| --- | --- |
| Multiple Card Support | 2 cards, 8 channels |