

PCIe-HDMI01

HDMI Frame Grabber with PCI Express Interface



INTRODUCTION

PCIe-HDMI01 is a PCI Express board that has the function of processing frame data received from the HDMI port and storing the data in the system's main memory.

GENERAL DESCRIPTION

- ◆ PCI Express V1.0 Compatible
- ◆ PCI Bus Master Operation
- ◆ HDMI Image frame Data Acquisition
- ◆ Full HD(1920x1200) Resolution support

APPLICATION

- ◆ Black and White, Color Image Display
- ◆ Image Acquisition (Pattern, Particle etc)
- ◆ Inspection Equipment (Sensor, Semiconductor, Device etc)
- ◆ Medical Image Capture n(X-ray, Supersonic)
- ◆ Security Solution (DVI Surveillance Cameras)

SOFTWARE

■ Operating System

- Windows 2000/XP/7/8/10 (32/64bit)

■ API

- Interface with Application through client DLL

SPECIFICATION

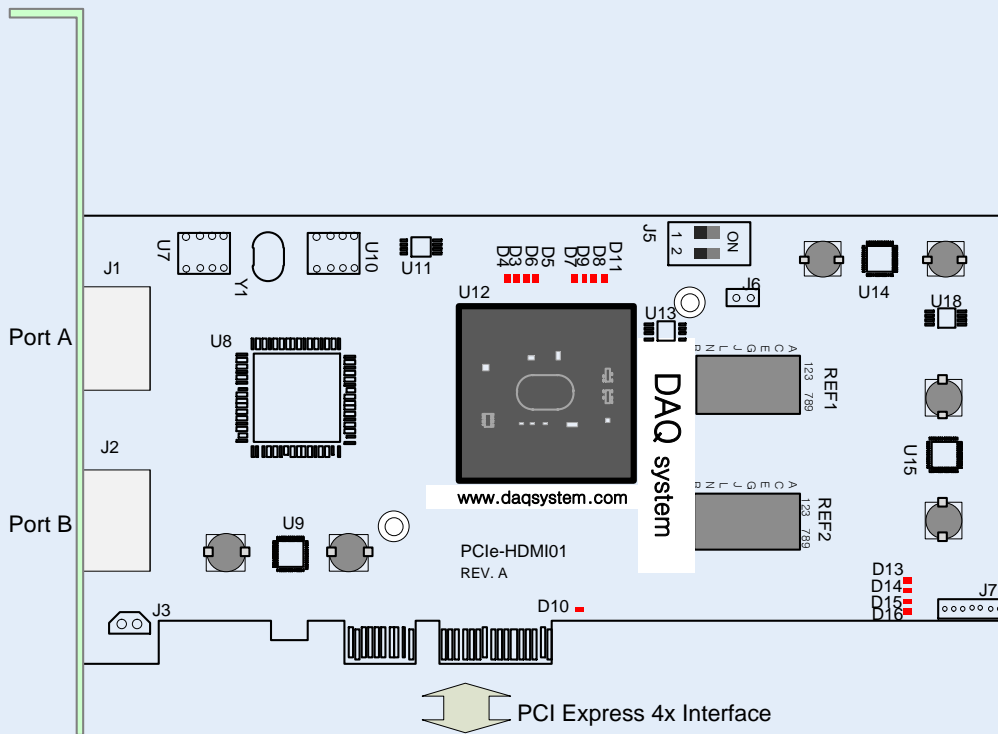
■ Features

- PCI Express 4x Interface
- HDMI Interface
- 256MByte DDR SDRAM Memory
- 4K_2K(3840x2160) 30frame Acquisition

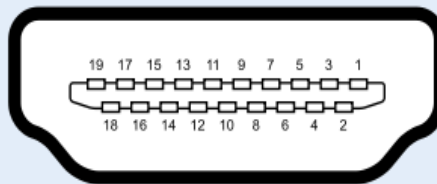
■ Functions

- All of the board functions are controlled by the logic program of the FPGA.
- 2port HDMI support (2 channels are not used simultaneously)
- DDC(100K I2C)

■ **Board Feature**



■ **Connector Map**



HDMI Connector

PHYSICAL/ENVIRONMENTAL

■ **From Factor**

- PCI express 4x

■ **Dimension**

- HDMI : HDMI connector
- Dimension (not including connectors) : 132mm x 68 mm

■ **Temperature**

- 0 to 60°C, Operating
- -20 to 80°C Storage

■ **Relative Humidity**

- 5 to 95%, Non-considering

■ **Power Requirement**

- 12V PCI Power Operation