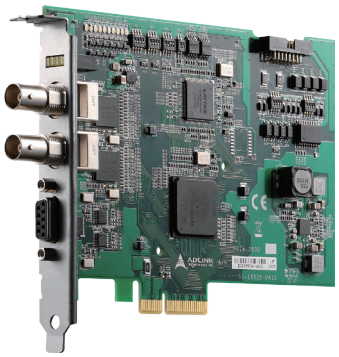
PCIe-2602

2-CH 3G-SDI Video/Audio Capture Card



Introduction

The PCIe-2602 3G-SDI video/audio capture card, based on the PCI Express x4 interface, provides unparalleled features, enabling acquisition of 2 channels 3G-SDI for low latency, and uncompressed video data signals up to 1920x1080P/60fps (frames per second), and high accuracy color format support 4:4:4. The PCIe-2602, featuring 3G signal capture ability and support for highly accurate color formatting, is ideal for frame grab function in a wide variety of applications, including medical imaging and intelligent video surveillance or analytics.

Thanks to 3G-SDI signal capability, ADLINK's PCIe-2602 supports high accuracy color format, such as 12 bit 4:4:4 1080i/60fps or 10 bit 4:2:2 1080P/60fps, and when combined with a suitable 75Ω coaxial cable, 3G-SDI signals can be transmitted over 100 m, all with no need for changes to existing cabling, representing significant savings in construction costs.

The included ViewCreator Pro™ utility enables setup, configuration, testing, and system debugging without requiring any software programming. As well, ADLINK's drivers ate compatible with Microsoft DirectShow, reducing engineering efforts and accelerating time to market.

Features

- Support for 2-CH 3G-SDI video signal, up to 1920 x 1080P/ 60fps video stream
- Low latency, uncompressed video streaming
- High accuracy color format support, 12 bit 4:4:4 1080i/60fps or 10 bit 4:2:2 1080P/60fps
- Cabling distances up to 100m (w/ compatible 75Ω coaxial cable)
- Directshow support
- RS-485 and digital I/O provided
- PCI Express x4 compliant signal
- Connection status LED

Applications

- Medical imaging
- Military imaging
- Video analytics or IVS(Intelligent Video Surveillance)

Software Support

- OS Information
  - Windows® 7/XP
- Software Compatibility
  - Microsoft® DirectX
  - Visual C++, C#, VB. Net, C++ Builder

Ordering Information

PCIe-2602
2-CH 3G-SDI Video/Audio capture card

Specifications

Form Factor	PCI Express x4	
Connectors	BNC x2, D-SUB	
Video Input	8/10-bit 4:4:4	720p@24 fps, 720p@25 fps, 720p@30 fps, 720p@50 fps, 720p@60 fps 1080i@50 fps, 1080i@60 fps 1080p@24 fps, 1080p@25 fps, 1080p@30 fps
	12-bit 4:4:4	1080i@50 fps, 1080i@60 fps 1080p@24 fps, 1080p@25 fps, 1080p@30 fps
	8/10-bit 4:2:2	720p@24 fps, 720p@25 fps, 720p@30 fps, 720p@50 fps, 720p@60 fps 1080i@50 fps, 1080i@60 fps, 1080p@24 fps, 1080p@25 fps, 1080p@30 fps, 1080p@50 fps, 1080p@60 fps
	12-bit 4:2:2	1080i@50 fps, 1080i@60 fps, 1080p@24 fps, 1080p@25 fps, 1080p@30 fps
	8-bit 4:2:2	525i@30 fps, 625i@25 fps
Audio Input	2 channel embedded	
Digital I/O	4-CH digital input; 4-CH digital output	
COM Ports	2 RS-485	
Storage Environment	Temperature: -20°C to +80°C (-4°F to 176°F)	
	Humidity: 0 to 95% RHNC	
Operating Environment	Temperature: 0°C to +60°C (32°F to 140°F)	
	Humidity: 5% to 90% RHNC	
Power Requirements	+12 V max @ 1.2 A, +3.3 V max @ 1.5 A	
Dimensions	149 x 98.4 mm (5.96" x 3.93") (W x L)	