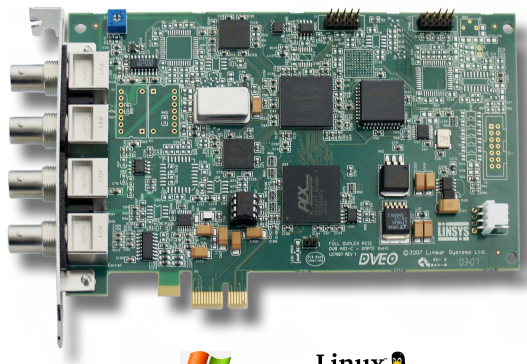


SDI Master PCIe

Full Duplex 8 or 10 Bit SMPTE 259M and SDTI PCIe Card with Black Burst Sync Input for Seamless Capture and Playback of Uncompressed Digital Video Streams. Includes Linux and Windows SDKs with Example Code in C++ and DirectShow® Support.



Features

- Transmits and receives uncompressed SDI at 270 Mbps
- Supports all NTSC and PAL standard component and composite serial video data rates (525/625 lines)
- Records and plays back 8 or 10 bit 4:2:2 SMPTE 259M digital video signals without adjustment
- ANSI/SMPTE 259M-1997 Level C serial digital video standard compliant
- Automatic cable equalization for input
- Single Lane PCI Express interface
- Ships with drivers for Windows® 7 32 and 64 bit, Windows® 2000, Windows® XP, and Linux®
- Windows XP/Server 2003/Server 2008/ Linux API
- Sample Windows® and Linux® applications for reading or writing to disk
- Uncompressed Video Streams on DVD – for testing SDI equipment – can be provided

Applications

- Contribution quality video serving around studios
- Logo insertion
- Provide uncompressed input to PC host
- SDI test pattern generation
- Video servers
- Standards converters
- Audio embedding and de-embedding
- Build your own SDI disk recorder

Overview

SDI is a SMPTE protocol for sending uncompressed 4:2:2 CCIR 601 digital video over a single coaxial cable from a source to a destination.

The **SDI Master PCIe** serial digital I/O board gives video professionals reliable, real-time access to uncompressed standard definition video (SMPTE 259M), enabling applications for video effects and video editing. SDI Master is designed to provide users with real-time, frame-accurate capture and playback, batch capture and machine control for Disk Based video recorders.

Our SDI Master PCIe interface board is capable of recording and playing back continuous serial streams at eight or ten bits of precision and streaming full-rate video into and out of main memory. We embrace open system solutions through seamless integration into the Windows® 7, Server 2003/2008, XP, Vista, and Linux environments and support the DirectShow® framework. All video input and output is performed from standard files within the standard file system.

This product was designed to allow inexpensive computers to replace dedicated tape decks and other devices that use digital video. This technology has altered the way in which SDI is used in the broadcast industry.



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SDI Master PCIe

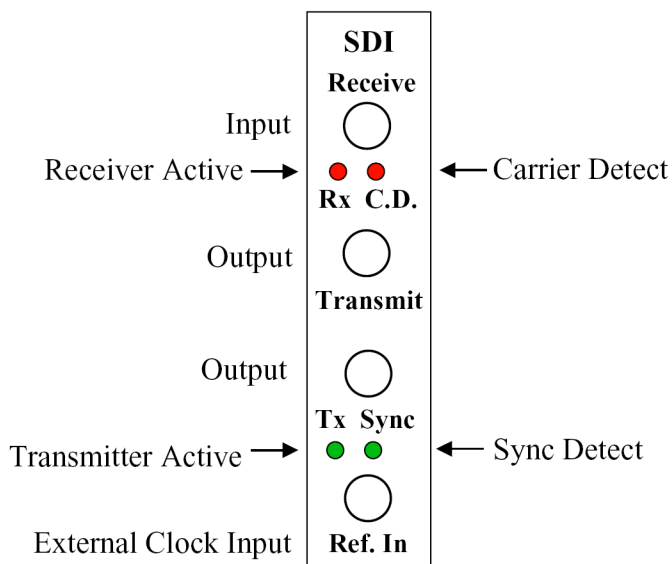
Capabilities

- Compliant with PCIe Bus
- Full support for SDTI
- Transports all primary and auxiliary data present in SDI signal including embedded audio without change
- Automatic cable equalization for input permits distances as great as 350 meters (1,100 feet) from switchers, cameras, or servers
- Clock Reference Input Connector (Black Burst)
- Audio Support: Assumed to be embedded in SDI signal per SMPTE 272M
- Now with Direct Show® filters for Input/Output and A/V separation

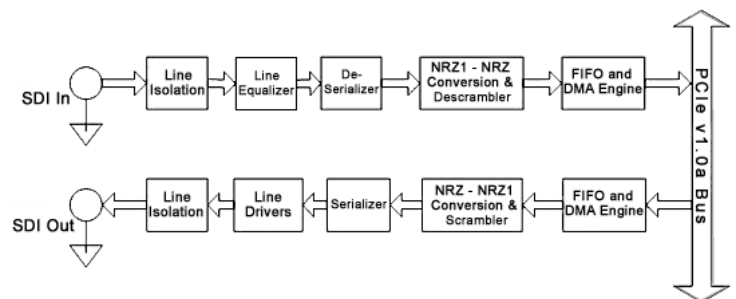
Specifications

Dimensions	
Width:	2.536 in (6.44 cm)
Length:	4.721 in (11.99 cm)
Thickness:	0.58 in (1.47 cm)
Typical Weight	4.8 oz (137 g)
Input/Output Connectors	75 Ohm BNC
External Clock Input	Black Burst
Data Input/Output	SDI Coaxial Cable
Input Form	8 Bits, 10 Bits
Typical Power	3.3V @700mA
Operating Temperature	0 to 55° C
Operating Humidity	To 90%, Non-condensing
Status LED Indicators	Tx, Rx, Sync, Carrier
Receive/Transmit FIFO Size	8 Kbytes
Bus Interface	Single Lane (x1) PCIe 1.0a

Connector Diagram



Block Diagram



Ordering Information

SDI Master PCIe with W or L
 W – Windows® Support: SDK's and DirectShow®
 L – Linux® Support: SDK's

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