SDI Master

For Seamless Capture of Uncompressed Digital Video to Disk Drives -- Full Duplex 8 or 10 bit SMPTE 259M SDI and SDTI Input and Output

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
- Input cable equalization
- PCI 2.2 bus interface
- Half size PCI card
- Ships with drivers for Windows® 2000, Windows® XP, and Linux®
- Includes source code in C + + for the GUI
- API available for Windows
- Sample Windows application for reading or writing to disk
- Uncompressed Video Stream on CD for testing SDI equipment

Applications

- Digi Beta tape deck capture/monitoring
- 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. It is used extensively in Sony's Digibeta (DV50) Cameras and Decks.

The **SDI Master** 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 PCI 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. Our product embraces open system solutions through seamless integration into the Windows 2000, XP, and Linux environments and supports open standards. All video input/output is performed to and from standard files within the standard file system.

At this time we do not support Color Space Modification from RGB to YUV which is essential for compatibility with certain Software Applications such as Adobe Premiere or Apple Final Cut Pro....We plan to do so in the near future..

DVEO Broadcast Division

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SDI Master

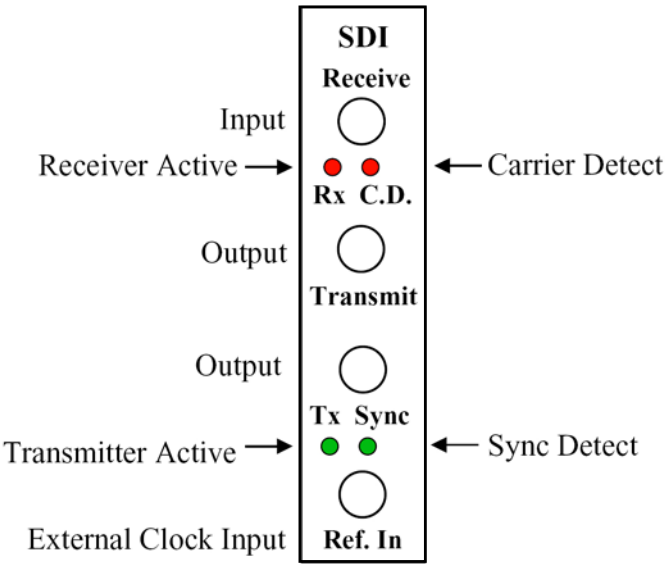
Capabilities

- Compliant with PCI Bus 2.2, 33/66 Mhz, 3.3/5 V
- Full support for SDTI V
- Transports all primary and auxiliary data present in SDI signal including embedded audio without change
- Automatic cable equalization permits distances as great as 100 meters (3,280 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

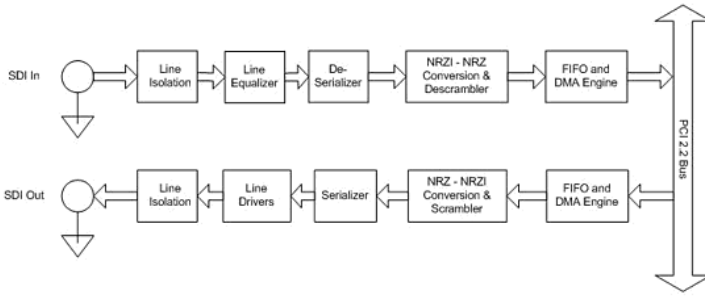
Specifications

Dimensions	
Width:	4.20 in (10.67 cm)
Length:	6.875 in (17.46 cm)
Thickness:	0.58 in (1.47 cm)
Typical Weight	5.2 oz (147 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	5 V @390mA
Operating Temperature	0 to 55º C
Operating Humidity	To 90%, Non-condensing
Status LED Indicators	Tx, Rx, Sync, Carrier
Receive/Transmit FIFO Size	2 Kbytes
Bus Electrical Interface	PCI 2.2, 5 V or 3.3 V
Bus	32 bit wide, 33/66 Mhz

Connector Diagram



Block Diagram



Ordering Information

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