Datasheet

DMediaPro™ DM6

Standard-Definition Video I/O Option

Features

- Uncompressed standard-definition (SD) serial digital video input and output for the Silicon Graphics Fuel visual workstation and the Silicon Graphics Octane2 visual workstation
- Support for NTSC and PAL SD digital component video formats
- 4:2:2 YCrCb video sampling with 8 or 10 bits per component
- 4:4:4 RGB video sampling with 8 bits per component
- Real-time colorspace conversion
- Selectable overlay of digital outputs
- Universal half-length single-slot PCI board for 32- and 64-bit PCI bus, operable at 3.3 and 5 volts
- Supports OpenML

Affordable Professional Digital Media

DMediaPro DM6 for Silicon Graphics® high-performance desktop workstations offers high-quality uncompressed SD digital video at an attractive solution price. Format support includes PAL and NTSC timings.

Desktop Solutions with Silicon Graphics Fuel™ and Silicon Graphics® Octane2™ Visual Workstations

DMediaPro DM6 is designed to be used with the high-bandwidth, high-performance Silicon Graphics Fuel and Silicon Graphics Octane2 visual workstations. Both workstations deliver high-quality desktop video in cost-effective configurations. The graphics quality and system bandwidth of Silicon Graphics Fuel and Octane2, combined with SGI® digital media libraries and innovative partner applications, provide today's most powerful desktop systems for editing, compositing, and visual effects applications.

Designed for Professional Quality

DMediaPro DM6 delivers all of the functionality you would expect in a professional video solution. It offers industry-standard BNC connections to external video devices via serial digital interfaces for video I/O and an analog genlock input for locking to house sync.

Real-Time Performance

Multiple video streams can be routed directly to and from main memory in real time. High-quality real-time colorspace conversion during input and output supports capture and playback of RGB or YCrCb to and from disk arrays.

The OpenML™ software development kit provides a robust programming interface and ensures audio and video synchronization.

Delivering a Total Solution

The SGI platform is unparalleled in the digital media industry and DMediaPro DM6 makes an advanced professional solution accessible to you. Whether you are doing video editing, compositing, broadcast graphics, or visual effects, visual workstations enhanced with DMediaPro DM6 are supported with industry-leading applications.

DMediaPro DM6
Technical Specifications

Compatibility
- Silicon Graphics Fuel visual workstation
- Silicon Graphics Octane2 visual workstation
- SGI® Origin® 300 and SGI® Onyx® 300[1]
- DMediaPro™ DM5 graphics-to-video-out option[2]
- IRIX® 6.5.14 or greater

Input Format and Connectors
- 1 SMPTE 259M BNC 75 ohm terminated, unbalanced

Output Format and Connectors
- 1 SMPTE 259M BNC 75 ohm terminated, unbalanced
- 1 analog composite monitoring BNC

Genlock Input
- 1 analog BNC

PCI
- Half-length, single-slot PCI board
- 64-bit, 33/66 MHz or 32-bit 33/66 MHz
- 3.3 or 5 V (universal)

Real-Time Features
- High-quality colorspace conversion on input and output
- Compatible with OpenML™ v. 1.0

Regulatory
- FCC Class A

Internal Digital Video Sampling
- 4:2:2—YCrCb 8- or 10-bit
- 4:4:4—RGB 8-bit

External Digital Video Formats for DMediaPro DM6

NTSC (525/59.94)
- Image size 720x486
- Scanning Interlace
- Frame rate 29.97 Hz

PAL (625/50)
- Image size 720x576
- Scanning Interlace
- Frame rate 25 Hz

[1]Support for these products is scheduled to be added later in calendar year 2002
[2]With Silicon Graphics Octane2

Corporate Office
1600 Amphitheatre Pkwy.
Mountain View, CA 94043
(650) 960-1980
www.sgi.com

North America 1(800) 800-7441
Latin America (52) 5267-1387
Europe (44) 118.925.75.00
Japan (81) 3.5488.1811
Asia Pacific (65) 771.0290

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