

Silicon Graphics® Octane® Compression Option

Features

- Professional digital media option for the Silicon Graphics Octane visual workstation
- Dual-stream motion-JPEG compression
- Lossy compression ratios from 2:1 to 100:1
- Lossless compression mode
- Analog video I/O

Video Capture and Compression

The Octane Compression option provides up to two streams of motion-JPEG compression with ratios as low as 2:1. The compression engine can compress video in real time as it is captured from an external source or video already resident in memory such as rendered animation frames. The board can also compress or decompress any size image up to 4k by 4k.

Video I/O

The Octane Compression option has a composite and S-Video input and output port, as well as an analog genlock loop-through. The compression board also has a direct connection to the Octane Digital Video I/O board, so two streams of 60I video can be independently compressed or decompressed in real time. The compression board has a built-in hardware scaler and color space converter to manage YUV or RGB video of varying image sizes.

Capturing the Screen Display

The Octane Compression option turns your application into a video source by allowing any portion of the screen to be recorded directly to disk in a compressed format. The screen capture capabilities allow you to demonstrate a design concept by creating a compressed video image of the screen interaction and storing it to disk. The stored video image can be edited using the bundled editing tools and then output to videotape as part of a presentation.

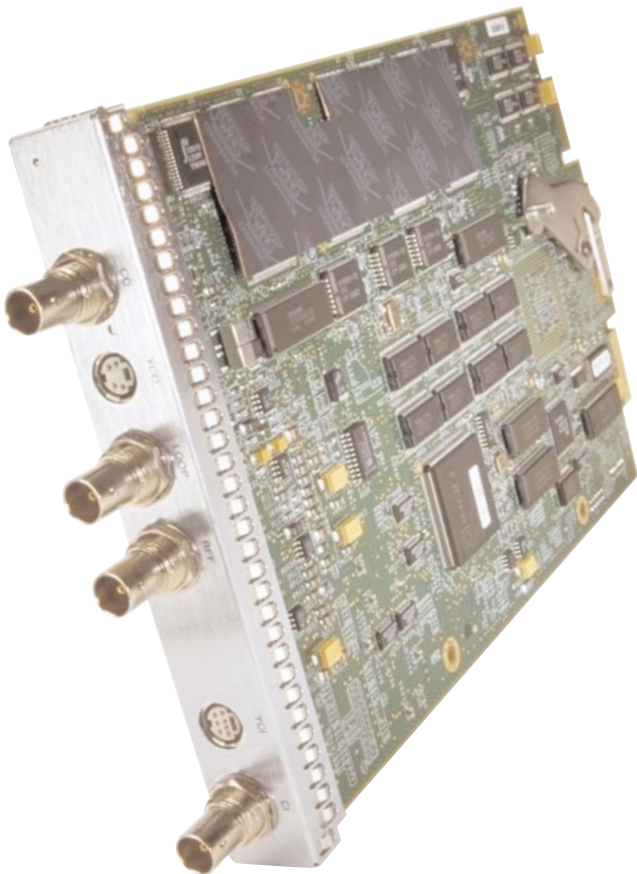
The Virtual DDR

The Octane Compression option's flexible architecture allows it to replace a traditional digital disk recorder (DDR) for many applications such as 3D animation. This allows artists to render a test sequence and then play it back as full-resolution video displayed on an interlaced PAL or NTSC monitor. With the bundled conversion software utility, rendered frames can be hardware compressed and stored to disk. The sequence can then be decompressed and played back at full resolution for display on an external monitor or on the graphics screen.

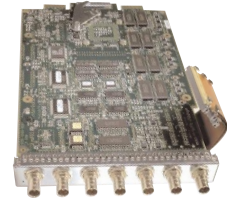
Professional-Quality Digital Media Tools

The digital media tools bundled with every Octane system give you the ability to develop compelling content for design reviews, presentations, and Web pages that incorporate video, as well as audio and 3D graphics. Tools are available for capturing, editing, and converting various audio, video, and image file formats.

A video control panel offers precise control of all video features through a simple graphical interface. The video control panel sets input and output timing and channel selection, defines a video-sized portion of the graphics display to use as a source for video out, or opens a window to display incoming video.



Silicon Graphics Octane Compression Option Technical Specifications



System Compatibility

The Octane Compression board is a single-slot XIO board compatible with all Octane systems with SI, SSI, MXI, SE, SSE, and MXE graphics.

Input Connectors

- 1 S-Video
- 1 composite BNC [75 ohm terminated, unbalanced]
- 1 composite locking reference BNC [75 ohm terminated]

Output Connectors

- 1 S-Video
- 1 composite BNC [75 ohm terminated, single channel video out only]

Standards

- 525/60 NTSC or 625/50 PAL software selectable

Output Characteristics

- Frequency response

4,2 MHz [-0.5 dBa]
5,5 MHz [-3.0 dBa]
- Color-weighted S/N

48 dBa

- Differential phase

<2.5%

- Differential gain

<2°

Real-Time Features

- Video scaling
- Color space conversion
- M-JPEG compression

Genlock

- Genlock to video input signal, external house reference signal, or internal reference

Regulatory Requirements

- FCC Class A

Octane Bundled Software

- Collaboration

InPerson®
Netscape Navigator®, Cosmo Player, OutBox, WebMagic Pro, Adobe Acrobat Reader™
- Web tools

Showcase™

- Presentation

SoundTrack, MovieMaker, ImageWorks, MediaPlayer, MediaRecorder, CD/DATPlayer, MediaConvert
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- Digital media tools

Marketing Code

- D9-OCT-COMP

Other Octane Digital Media Products

- Silicon Graphics Octane Digital Video option
- Silicon Graphics Octane Personal Video option
- SGI™ Digital Audio option



Corporate Office

1600 Amphitheatre Pkwy.
Mountain View, CA 94043
[650] 960-1980
www.sgi.com

North America [800] 800-7441
Latin America [650] 933-4637
Europe [44] 118.925.75.00
Japan [81] 3.5488.1811
Asia Pacific [65] 771.0290

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