

ImageBUFFER* Video Frame Buffer & PCI-SSA Host Adapter

The Adapter Includes the Following Components:

The ImageBUFFER* high speed video frame buffer & PCI-SSA Host Adapter card.

- Validated Device Drivers For MacOS* and Windows NT
- MacOS Device Installer & Formatter Utility

Optional Components:

- ImageNET Package For Creating Networking & Storage Systems For Video Workgroups of Up to 8 Seats
- ImageHUB* Simplifies Connections and Lets You Modify Workgroup Configurations on the Fly With No Interruptions to the ImageNET Loop
- StreamLine-PCI* SSA Host Adapter, Which Can Be Used as an Alternative to ImageBUFFER in Applications Where Frame Buffer Functionality is Not Required

Performance

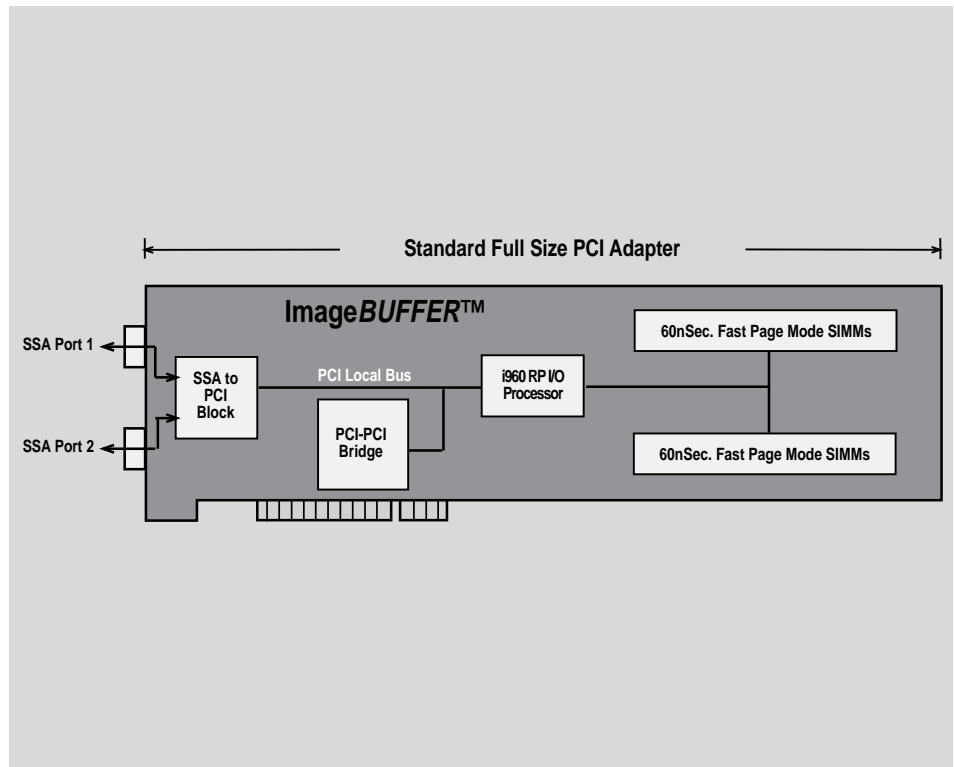
- SSA Bandwidth 80 Mbytes Per Second
- Greater Than 4500 I/O Operations Per Second¹
- Command Queuing: Supports Up to 220 Concurrent Commands
- Maximum PCI Data Transfer Rate: 132 MBytes Per Second
- Supports Striping (RAID 0) & Mirroring (RAID 1)

Processors

- Dedicated Video Acceleration Processor: i960[®] RP I/O Processor
- Main Adapter Control Processor: i960 JF Processor
- Onboard Control Firmware Based on Pathlight SDI* Serial Driver Interface: Patents Pending

Physical/Environmental

- Form Factor: Full-Size PCI
- Power: Less Than 20 Watts
- Temperature Range (Operating): 0-50 Degrees C
- FCC Class B
- CE-Mark



Operating Systems

- MacOS
- Windows NT

SSA Interface

- Provides Two SSA Ports Which Support SSA Loops or Strings, With Up to 128 Devices Per Loop
- 20 Meters, Point-to-Point Using Twisted Pair Copper Cables
- Provides SSA Initiator Capabilities
- Supports Multiple Initiators in the Same SSA Loop
- Supports Connections to ImageNET Video Workgroups
- Onboard Connectors Allow Use of SSA Devices Within the Host Chassis
- Supports Hot-Plugging
- Self-Configures on Power-Up
- Link Protection: 4 Byte CRC
- Error Rate: 1 Error in 1 Trillion Bits
- Complies With IA 95 PH & SP

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For details on the ImageBUFFER frame
buffer & PCI-SSA adapter visit our Web site.

¹ Results vary as a function of host OS efficiency, users' application profiles, and the number and type of SSA devices accessed by the adapter.



PCI Bus Interface

- Full PCI Compliance
- Supports 33 MHz PCI Bus
- Serves as PCI Burst DMA Device
- Scatter/Gather Mode Supported

Frame Buffer Memory

- Based on Pairs of Industry Standard 60nSecond Fast Page Mode SIMMs
- Configurable For 8, 16, 32, 64, or 128 Mbyte Buffer Sizes
- Buffer Memory is Configured as a PCI System Resource
- Supports Direct Master Accesses By Video Applications Over the PCI Bus

Optional Components:

ImageNET Network & Storage System for Video Workgroups

- Network & Storage System For Video Workgroups Up to 8 Seats
- 80 Mbyte Per Second Bandwidth For Each User
- Lets Video Applications Share Un-Compressed Video Data, Simultaneously
- Supported By ImageBUFFER and StreamLine-PCI Adapters

ImageBUFFER combines the functions of a high speed video frame buffer & PCI-SSA adapter on a single full size PCI card. The card lets users stream data directly to and from video applications, at speed sufficient to support uncompressed video.

ImageBUFFER is an ideal way to:

- Speed up video applications, which have little or no buffer memory of their own,
- Simplify data flow & save data movement steps,
- Free host system memory from being misused as buffer memory for video, and
- Connect video workstations to ImageNET* network & storage systems for video workgroups.

Frame buffer memory size is configurable up to 128 Mbytes using standard off the shelf SIMMs. In addition, ImageBUFFER provides a dedicated i960[®] RP processor for video acceleration. The adapter supports striping and mirroring, and works with all video applications, and all SCSI applications. Supports single-user & workgroup configurations.