

SGI Media Server™ for Broadcast

Models MSB 220, 240, 280, 400, 800

Models MSB 220, 240, and 280:

- MPEG-2 4:2:2 P @ ML from 8Mb/sec to 50Mb/sec
- MPEG-2 4:2:0 MP @ ML from 3Mb/sec to 15Mb/sec
- Up to 8 video channels (any combination of in or out)
- SMPTE 259M, 270Mb/sec serial digital I/O
- Composite analog video monitor output
- Support for up to 8 audio channels per video channel from a choice of:
 - 8 embedded audio channels (SMPTE 272M) per video channel
 - 2 AES/EBU digital audio pair inputs per video channel
 - Support for 2 analog XLR audio inputs per video channel
- 16/20-bit embedded and AES/EBU audio support
- Up to 640 hours of storage at 8Mb/sec
- Daughter-clip creation and parent-clip deletion
- Transfer entire or subclip with concurrent ingest
- Real-time 64-bit filesystem guarantees ingest and playout performance
- Dolby E, AC-3/5.1 audio*
- Supports playout of MXF and GXF clips*
[*Available summer 2002]

Models MSB 400 and 800:

- DVCPRO25 compression
- Uncompressed ITU-R BT.601-4 video
- 12 reconfigurable video channels, from a choice of 8 in and 8 out
- SMPTE 259M, 270Mb/sec serial digital I/O
- Up to 2 SDTI (SMPTE 305M) I/O for 1x or 4x real-time transfers
- Support for 1 AES/EBU audio pair per DVCPRO channel
- 525-line (NTSC) or 625-line (PAL) support
- On-server EDL conforming
- Back-to-back playout and ingest
- Transfer clips concurrently with ingest
- Guaranteed ingest and playout performance
- StudioCentral™ DAM infrastructure support
- Real-time 64-bit filesystem

The SGI Approach to Video Serving

Broadcasters want increased efficiency, and technical innovation has brought this about. Servers based on dedicated proprietary technology no longer meet the needs of organizations that want to move to distributed news production and centralcasting models.

Today, scalability, format agility, and integration with ingest, browse, rough-cut, news edit, graphics, automation, media management and archive systems are more important than in the past. Moving robust open-system computers as the basis for media serving allows for streamlining of the broadcaster's workflow and therefore provides a strategic solution to distributed news production and centralcasting operations in ways that past-generation video servers never will.

Distribute Data, View Video

SGI Media Server for broadcast takes advantage of the revolutionary distribute data, view video approach. When file-based video is managed as data, it can be distributed, with the added benefit of error correction, over data networks with ease and efficiency. Effective LAN/WAN media distribution is a key element of SGI Media Server for broadcast. It supports Fibre Channel, 100Base-TX Ethernet, Gigabit Ethernet, and ATM OC3. It is also able to interface with browsing systems and asset management systems using standard data networks to archive, track, preview, and retrieve assets. This capability not only makes media management more effective but it also streamlines the process of repurposing content for Web and broadband distribution. The high throughput of SGI Media Server for broadcast facilitates simultaneous ingest and data network-based file transfers without compromising the server's performance.

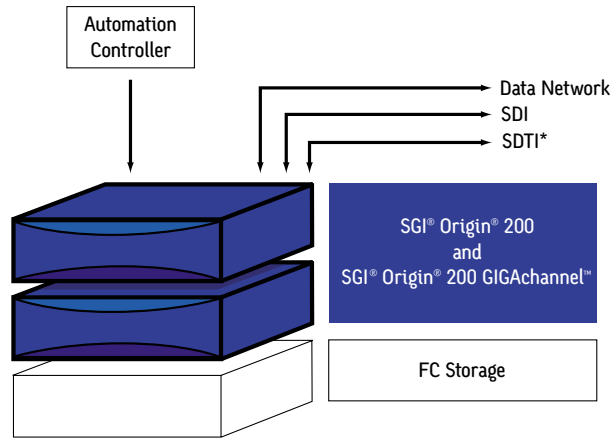
Broadcast Applications

SGI Media Server for broadcast supports the most popular broadcast digital formats: MPEG-2, DVCPRO, and uncompressed. Traditional broadcast operations such as multichannel playout under automation control are supported with industry-standard protocols. So, supporting critical broadcast applications, including acquisition play-to-air, commercial insertion, and server-based news editing, is not overlooked.

Configuration and Implementation

SGI Media Server for broadcast is part of the Media Commerce™ suite of products from SGI that enable customers to create, manage, deliver, and transact content over networks. SGI Professional Services offers system implementation services that include customer qualification, site planning assistance, hardware installation, configuration of network connectivity, connection of peripheral devices, and software configuration. Take advantage of SGI Professional Services to help deliver a solution tailored to your strategic requirements. Contact your local SGI field office for further information.





*SDTI is supported on the MSB 400 and 800 models only.

SGI Media Server for Broadcast Technical Specifications

Storage <ul style="list-style-type: none"> Ultra SCSI or Fibre Channel attached high-performance RAID Up to 243 hours of storage in DVCPRO25 mode Up to 44 hours of storage in uncompressed mode 	Dimensions and Weights <ul style="list-style-type: none"> Rack mountable 19" customer-supplied rack or SGI® rack Rack mounted 6.8" H, 25" D, 17.4" W [two units] 17.3 cm H, 63.5 cm D, 44.2 cm W Weight 120 lb [54 kg] min.
Base Unit <ul style="list-style-type: none"> System SGI Origin 200 and Origin 200 GIGACHannel Microprocessor 64-bit MIPS® RISC R12000™ CPU capacity 2 or 4 R10000® or R12000 CPUs per unit Memory bandwidth 630MB/sec sustained, 720MB/sec peak I/O bandwidth 1.15 630GB/sec sustained, 1.44MB/sec peak Communication 1 10Base-T/100Base-TX, 2 460Kb/sec serial ports, 1 parallel port 	Environmental [Nonoperating] <ul style="list-style-type: none"> Temperature -20° to +60°C Humidity 10% to 95% noncondensing Altitude 40,000 MSL
Networking <ul style="list-style-type: none"> 100Base-TX, 1000Base-TX [Gigabit Ethernet], and ATM OC3 networking support for faster than real-time transfer of video as data 	Environmental [Operating] <ul style="list-style-type: none"> Temperature +5° to +35°C Humidity 10% to 80% noncondensing Altitude 10,000 MSL Noise 55 dBA
Time Code <ul style="list-style-type: none"> VITC LTC 	Electrical and Power <ul style="list-style-type: none"> Voltage 110/220 VAC 1 phase auto-sensing Worldwide power supply Power supply Standard 483 W, redundant power supply Frequency 50/60 Hz Heat dissipation 2,300 BTU/hr, max. Electrical service 100/110 VAC at 15 A, 200/220 VAC at 10 A Service type U.S., Japan, NEMA 5-15P [110 V], 6-15P [220 V]
Control <ul style="list-style-type: none"> Louth VDCP Sony P2 [RS-422] SGI MVCP 	Regulatory <ul style="list-style-type: none"> SGI Origin 200 is classified FCC Class A, CE, CSA, TUV, UL, CISPR A, and VCCI Class 2 certified
Storage Interface and Capacity <ul style="list-style-type: none"> Fibre Channel Ultra SCSI Base storage: 10 hr 	Support and Warranty <ul style="list-style-type: none"> One-year hardware warranty with advance parts exchange



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