

Overview

BlueLine Technology's Digi-File HD MPEG-2 server delivers the best combination of dual-processing performance, high availability and MPEG-2 integration in a cost-competitive system. Leveraging the highest performing Intel E7520 chipset that supports EM64T 64-bit operation, dual Intel Xeon 3.6 FHz processors with 800 MHz front side bus, Hyper-Threading technology and dualchannel DDR2 memory, the Digi-File HD is a top of the line server that delivers high performance, high availability and system reliability in an open-standards based, passive-backplane platform. Using PCI-express, the system host board drives throughput to the add-in components at a substantially higher rate than previous servers.

Integrated with BlueLine's SuiteBlue automation software package, which includes Media Asset Manager (MAM) and Archive solutions, Digi-File HD is the perfect platform to upgrade your Master control, Multi-channel distribution or Archival/Retrieval systems.

To satisfy the most rigorous application requirements in demanding, 24/7 environments, the Digi-File HD provides nonstop operation with robust redundancy of critical components including hot-swap N+1 redundant power, hot-swap hard drives and hot-swap cooling fans. Tool-free, front access to key components, including drives and power supplies reduces Mean-Time-To-Repair (MTTR). Designed to increase uptime and maximize productivity, the Digi-File HD features dual Gigabit Ethernet and RAID solutions through add-in SATA or SCSI controllers.



Features – (SD) Standard Definition Video

- 2x SDI input and 4x SDI output – Encode 2 streams at one time and play up to 4 video streams at once
 - Real time DV25, MPEG-1, MPEG-2 play and record up to 50Mbps; real time 10 bit uncompressed play and record
 - MPEG-2 (4:2:0) and (4:2:2) Chroma sampling supported; DV (4:2:0), (4:1:1) and (4:2:2) Chroma sampling supported
 - MPEG-2 variable and fixed bit-rates from below 1Mbps to 50Mbps supported; DV25 standard, DVCpro50™ optional
 - I-Frame only, IP, IBBP and IB GOP structures supported
 - Variable resolutions supported up to 720x512 (NTSC) or 720x608 (PAL) including the ability to capture lines in the blanking interval
 - Bi-directional video play speed at variable resolutions as low as 1% normal speed
 - SDI Serial Digital video input has jitter reduction allowing Digi-File HD to be used as a SDI video jitter reducer in pass through mode
 - Decodes four DV or MPEG-2 video streams with the ability to alpha blend 2 video streams in real time for doing elaborate scene transitions such as fades, wipes dissolves, etc.
 - Logo Inserter, Video Scalar, and Video color Space Converter built in
 - VITC and LTC reader/generator on input & output – usable on pass-through video
 - Trans-code from MPEG-2 to DV and uncompressed at real time speeds
 - Fill/Key playback applications supported
 - Closed-Caption capture and insertion supported
- Standard Features – Audio
- 2 programmable/bi-directional AES3 digital audio connections supporting PCM, S/P-DIF
 - Up to 8 channels of embedded audio per SDI video connection

Digi-File HD Server Specs

- 2x HD/OSDI input and 4x HD/SDI output – Capture 2 HD streams at one time and play up to a 4 HD video streams at once
- Dual link SDI supports HD 10-bit 4:2:2:4, 4:4:4:4, 720p, 1080i, 1080p (24, 25 & 30fps)
- Perform uncompressed HD capture simultaneous with SD Codec operation
- Programmable control over card operation and all video/audio data
- 2 SATA™ (serial ATA) connectors allow multiple boards to cooperatively process a single image
- Flexible HD encoding options via daughter-board design
- Real time custom control capability via user-programmable Xilinx™ Virtex-II™ chip
- Simultaneous playback and record

Overview

BlueLine Technology's Digi-File™ media server is an extension of BlueLine's software and hardware solutions. Digi-File™ was introduced in 1999 and premiered at NAB2000 as a scalable and open architected, cost-effective, storage solution. Digi-File™ is the most refined video server for storage of television content, and the only video server with a 3-year hardware warranty and 1.2 million hours between mean time failure.

To satisfy the most rigorous application requirements in demanding, 24/7 environments, Digi-File™ provides non-stop operation with robust redundancy of critical components including hot-swap N+1 redundant power, hotswap hard drives and hot-swap cooling fans. Tool-free, easy access to key components, including drives and power supplies reduces Mean-Time-To-Repair (MTTR). Designed to increase uptime and maximize productivity, the Digi-File™ features dual Gigabit Ethernet and RAID solutions through add-in SATA or SCSI controllers.

Integrated with BlueLine's SuiteBlue automation software package, which includes Media Asset Manager (MAM) and MARS Archive solutions, Digi-File™ is the perfect platform to upgrade your Master control, Multi-channel media distribution for Archival and Retrieval applications.

Detailed Specs

- Real time 10 bit uncompressed play and record
- Variable and fixed bit-rates supported
- I-frame only encoding as well as IP, IBBP and IB at 4:2:0 and 4:2:2 Chroma sampling
- Variable resolutions supported up to 750x512 (NTSC) or 720x608 (PAL) including the ability to capture line 21 in the blanking interval.
- Four 350W AC redundant hot-swap power supplies providing 1050W of N+1 power
- Three 140 CFM hot-swap cooling fans
- MPEG-2 (4:2:0) and (4:2:2) Chroma sampling supported
- DV (4:2:0), (4:1:1) and (4:2:2) Chroma sampling supported
- Variable and fixed bit-rates from below 1Mbps to 50Mbps supported
- I-Frame only, IP, IBBP and IB GOP structures supported
- Variable Video Play Speed at resolutions as low as 1% normal speed
- Composite analog, S-video analog, Component (YCrCb and RGB), or SDI Serial Digital video selectable as video input or genlock source
- Composite analog, S-video analog, Component (YCrCb and RGB), and SDI Serial Digital video simultaneous outputs
- Supports 32K, 44.1K and 48K audio sample rates that can be locked to the video clock
- Up to 3 AES3 digital audio connections supporting PCM, AC-3, DolbyE, etc. (1 AES3 max without Panel)
- Support simultaneous record and play, including support for video delay applications
- Conversion to and from DV, MPEG-2 and uncompressed formats at rates faster than real time
- Digi-File™ can be used for DVD authoring
- Includes all the software needed to Record, Play and Edit Videos and Video Play Lists

Digi-File™ Analog Server Features

- Encodes SDI and Analog video signals to MPEG digital files and stores on built-in RAID storage
- Digi-File™ can also be used as an Analog to SDI Serial Digital video converter and vice versa
- Decodes two DV or MPEG-2 video streams with the ability to alpha blend the 2 video streams in real time
- HD upgradeable
- Real time MPEG-2 (including IMX) play and record (up to 50 Mbs)
- Proxy generation
- Up to 1.5 Terabytes RAID storage
- Up to 8 channels of embedded audio per SDI video connection
- Up to 4 channels of analog audio (2 channels max without Panel)
- Real time DV and DVC-PRO-50 play and record
- Closed-captioning compliant
- Analog video input is Time Base Corrected
- SDI Serial Digital video input has jitter reduction
- Logo Inserter, Video Scalar, and Video Color Space Converter built-in
- VITC and LTC reader and generator on each input and output; can even be used on pass-through video
- Simple Play List format for playing long sequences with many video clips and transitions
- Standard 3 year warranty with optional extended warranties and technical support upgrade plans

