

HERA 4000f

DIGITAL MEDIA TRANSCODER

THE WORLD'S FASTEST MEDIA TRANSCODER REACHING SPEEDS UP TO 15X REAL-TIME WHILE DELIVERING SUPERIOR VIDEO QUALITY IN MULTIPLE MEDIA FORMATS.

- > Broadcast Quality File Transcoder (SD and HD)
- > Up to 15x Real Time Transcoding of Full Resolution
- > Clipping, Stitching, Thumbnail Extraction
- > Metadata Preservation
- > Standards Conversion (NTSC-PAL)

The HERA 4000f digital media transcoder is a revolutionary approach to the way the transcoding industry operates today. It is the only hardware based video transcoding appliance which adapts digital media, SD and HD, to broadcast production workflows and Video-on-Demand services. The appliance is designed to meet rapidly evolving market demands for delivering high-quality compressed video files for distribution over Digital Broadcast TV & IP networks. The HERA 4000f is a carrier-grade appliance created to be customizable, flexible and upgradable.

HIGHLIGHTS

- > Superior broadcast quality video
- > Up to 30x performance improvement compared to x86-based solutions
- > Telco grade reliability
- > Wide standards support: MXF, IMX50, QuickTime, Avid/Pinnacle, Flash 9 (H.264), Omneon, WM9, 3GPP
- > Standards Based Transcoding (NTSC/PAL)
- > Quality Reporting
- > Maximum flexibility utilizing modular transcoder hardware
- > Remote management, monitoring and upgradability
- > Fully redundant, auto-failover



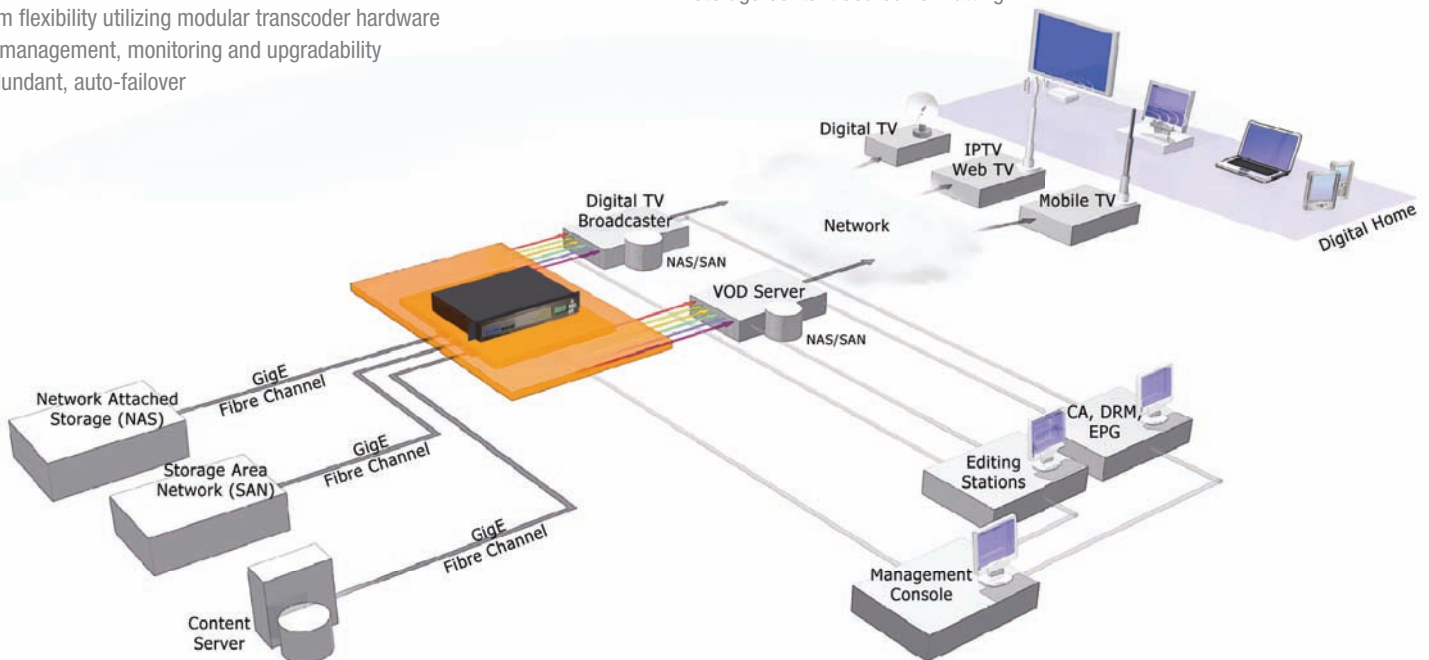
2008

FROST & SULLIVAN

World Video Encoders & Transcoders Market
Product Innovation Award

APPLICATIONS

- > Content Re-purposing for Video-On-Demand Services in IPTV, and Digital Broadcast TV
- > Digital Library and Asset Management Systems Migration
- > Extensible File-based Transcoding
- > Time-sensitive Transcoding Task Acceleration
- > Seamlessly Delivery of Video Content to All Networked Video Devices
- > Storage Content Source Formatting



HERA 4000f

TECHNICAL SPECIFICATIONS

Inputs:

Interfaces	Gigabit Ethernet Fibre Channel I/O HD-SDI (SMPTE 259M) 625/525 with embedded audio
Storage Systems	Network Attached Storage (NAS) Support Storage Area Networks (SAN) Support
Media Format	SMPTE D-10 MXF Op1a Essence (SMPTE 356M) MPEG-2 TS/PS (ISO/IEC 13818-1, ISO/IEC 11172-1) MPEG-2 SD/HD Apple QuickTime Movie MPEG-IMX, AVID Meridien MPEG-1 Audio Layers I, II AC-3 Audio (pass-through)

Outputs:

Media Format	MPEG-4 - mp4 format (ISO/IEC 14496-1) SMPTE D-10 MXF Op1a Essence (SMPTE 356M) H.264/AVC (ISO/IEC 14496-10) Baseline/Main/High Profile 3GP (ISO/IEC 14496-14:2003) Pinnacle Media Stream Flash 9 (H.264), Flash 8 (VP6) (Q1) VC-1, Window Media 9 AAC/AAC-HE - Advanced Audio Coding (MPEG2, MPEG4)
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Transcoding Features:

Video	Bit Rates: 16 Kbps – 50 Mbps Frame Rates: 1 – 60 Hz Resolutions: SQVGA (160x120) to Full D1 (Standard Definition) High Definition (1080i, 720p) or custom size Bit Rate Control: CBR, VBR, Adaptive Configurable motion search range Multiple reference frames with quarter-pel search CAVLC / CABAC, Interlace support, B frame support Enhanced scene-change detection logic De-blocking & noise reduction filters Motion Adaptive Deinterlacing, Inverse Telecine Dual pass encoding Black detection/removal Gamma correction, Color space conversion Aspect ratio conversion, Scaling, Cropping
Audio	MPEG-4 ISO/IEC 14496-3 GA (General Audio) AAC (Advance Audio Coding), MPEG2 and MPEG4 Profiles: LC (Low Complexity) and HE (High Efficiency) ADTS header format, LATM packetization Adaptive Multi-Rate - AMR (3GPP TS 26.071) ADTS header format, LATM packetization Bit Rates: 8 – 288 Kbps Sampling Rates: 8, 11, 16, 22, 32, 44.1, 48 KHz Bit Rate Control: Constant and Variable bit rate control
Tools	Metadata preservation, Audio extraction Analog and digital closed captioning extraction (WC3 TT, SCC, SAMI) Folder Monitoring Proxy file generation Quality Control Reporting Darwin Streaming Server & Flash Media Server support

System Configuration:

Management	SNMP v.2 alerts / traps / remote control Web Management Console Auto-failover XML-based profiles SDK for integration with custom applications SOAP layer Fully compliant with HERA Management Server
Form Factor	Rack, Steel chassis 2U (89mm)H, 19" (482.6mm)W, 20" (508mm)D Weight: 33 lbs (15Kg)
Transcoding Module	Max three
I/O Connectors	Gigabit Ethernet Gbps Fibre Channel HD-SDI (SMPTE 259M) BNC
Power supply	Dual AC: 90-264V / 47- 63Hz, 350W Redundant Power Supply Module
Cooling system	Chassis: 2 x 40x40 mm fans CPU: 1 x 60x60 mm fan Power Supply: 1 x 40x40 mm fan
Environmental	Operating Temperature: 0 to 50° C, 32 to 122° F Storage Temperature: -20 to 65° C, -5 to 150° F Humidity: 5 to 90 % Shock: 10G / 11ms in all axis Vibration: 0.8G / 5 to 100 Hz
Electromagnetic Compatibility	FCC Class A, CE compliance, UE 89/336/EEC EN61000-6-2, EN55022, EN55024
Safety Approval	UE 73/23/EEC EN60950: 2000

Available Configurations

- HERA 4000f:** Gigabit Ethernet only
- HERA 4000f.f:** Fibre Channel I/O (2U)
- HERA 4000f.s:** HD-SDI (SMPTE 259M) input (2U)
- HERA 4000f.fs:** Fibre Channel I/O, HD-SDI input (2U)

Specifications subject to change without notice.