HD ULTRASOFT

Our highly qualified staff able to provide solution for total automated file workflow and station management solution for any existing infrastructure. The total new concept of a direct Database integration/ synchronization on TV station allows real-time feedback between Playout- Production- Sale.

PRIME_VT

VIDEO TRANSCODE SERVER PLATFORM

THE FUTURE OF

Transcoding Video Server

Transcoding Video Server evolves with the dynamic needs of your business

PRIME_VT—Professional Transcoding Server Gets Flexible

The **PRIME_VT** is transcoded product to speed up video processing and transcoding. PRIME_VT Server accelerates video processing using GPUs and multi-core CPUs to deliver the best image quality in the least amount of time.

PRIME_VT has the capability to generate low-resolution (or proxy) streaming files for team collaboration, allowing easy sharing through local networks, HTTP, or dedicated MAM. Supports multi-threaded processing and automatic load balancing based on the server farm architecture. The decision to create or skip low-resolution videos is contingent upon the configuration within the workflow associated with that media.

PRIME_VT supports output in various formats, including MP4, fragmented MP4, TS, M3U8/HLS, and DASH, with support for multi-bitrate outputs.

The proxy formats retain as much metadata, timecode, and caption information as possible. Additionally, metadata and closed caption tracks can be extracted to enrich the information available in your MAM.

Advanced Video Processing

The PRIME_VT, a specialized NVIDIA GPU server, rapidly executes tasks involving deep computational image processing within MAM workflows. This involves managing and deploying AI tools related to computation and image detection analytics. The accelerated video preprocessing significantly contributes to enhancing output quality across various video formats, benefiting both transcoding and automated content assembly.

Model	PRIME_VT-AI	PRIME_VT4K-AI
CPU Type	AMD EPYC™ Processor 16-Core 3GHz	Intel® Xeon® Processor 16-Core 3.6GHz
GPU Type	NVIDIA® A10 GPU Computing Accelerator - 24GB GDDR6 - PCIe 4.0 x16 - Passive Cooler	NVIDIA® A16 GPU Computing Accelerator - 64GB (4x 16GB) GDDR6 - PCIe 4.0 x16 - Passive Cooler
Operating System	Microsoft Windows Server 2022 Standard (16-core)	
Memory	Maximum Capacity 16 DIMM Slots	
	8x 32GB DDR5 ECC 4800 MHz RDIMM	
Drive Bays / Storage	12x 3.5" NVMe/SATA/SAS drive bays	
	2 x 480GB SATA 6.0Gb/s Solid State Drive for OS	2 x 960GB SATA 6.0Gb/s Solid State Drive for OS
	2 x 1.92TB U.2 PCIe 4.0 x4 NVMe Solid State Drive (Read Speed: 6900 MB/s Write Speed: 4100 MB/s)	2 x 3.84TB U.2 PCIe 4.0 x4 NVMe Solid State Drive (Read Speed: 6700 MB/s Write Speed: 3600 MB/s)
Input / Output	SATA: 16 SATA3 (6 Gbps) ports LAN: 1 RJ45 Dedicated IPMI LAN port USB: 2 USB 3.0 ports (rear) COM: 1 COM Port (rear) Video: 1 VGA port	SATA: 12 SATA (6Gbps) port(s) LAN: 1 RJ45 Dedicated IPMI LAN port USB: 2 USB 2.0 port(s) (2 headers) 2 USB 3.2 Gen 1 port(s) (2 rear) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 rear)
Ethernet Network Interface Cards	2x 25GbE SFP28 - Broadcom Network Adapter 2x 25GbE SFP28 – Mellanox Network Adapter	2x 25GbE SFP28 - Broadcom Network Adapter 2x 25GbE SFP28 – Intel Network Adapter 2x 25GbE SFP28 – Mellanox Network Adapter
Management	Support for Intelligent Platform Management Interface v.2.0 KVM with dedicated LAN	Support for Intelligent Platform Management Interface v.2.0 KVM with dedicated LAN
Expansion Slots	4 PCI-E 4.0 x16 (FH, 10.5"L) slots	4 PCIe 5.0 x8 FHFL slot(s) 2 PCIe 5.0 x16 FHHL slot(s)
System Cooling	3x 80x80x38mm middle cooling fans	3 heavy duty PWM 80x80x38mm Fan(s)
Power Supply	920W Redundant power supplies	1200W Redundant Titanium Level power supplies
Form Factor	2U Rackmount	2U Rackmount

Extension	File Format	Codec	Read	Convert Write
DASH	h.264	DASH Fragmented MP4 and Smooth Streaming	•	•
H264	h.264	4:2:0 SD/HD up to 80 mbits/sec	•	
HLS	h.264	HLS TS MultiRate	•	•
M3U8	HLS	h264, h265, TS or MP4	•	•
MP4	AVC1,h.264	Apple h.264, h.264 AVC	•	•
MP4	HEVC, h.264	HEVC/265	•	•
MPEG	MPEG-2	4:2:0/4:2:2 SD/HD up to 80 mbits/sec	•	•
MPEG	MPEG-4	4:2:0 up to 50 mbits/sec	•	•
MXF	Avid	DV25, DV50, DVHD, DNxHD*, Uncompressed	•	•
MXF	Canon	MPEG-2	•	
MXF	Grass Valley	Grass Valley iCR	•	•
MXF	Harmonic	MPEG-2	•	
MXF	h.264/AVC	MPEG-2	•	
MXF	MXF	JPEG-XS	•	•
MXF	OP1a/Omneon	DV25, DV50, DVHD, AVCi100, Uncompressed	•	•
MXF	OP1b	Panasonic AVCi 4K	•	
MXF	Panasonic-P2	DV25, DV50, DVHD, AVCi100	•	•
MXF	Sony	XDCamHD, XDCamEX 4:2:0/4:2:2	•	
MXF	XAVC	XAVC HD and 4K	•	
YUV	YUV	4:2:2 and 4:2:0 YCbCr image sequence	•	•