VMAP-750

A revolutionary VMAP server designed for the contemporary data center.

Elevate your data center's media processing capabilities and throughput with Vietex Media's VMAP Server. This server enables simultaneous transcoding and video storage within a compact 2U high enclosure, catering to Media Asset Management (MAM) and multi-format Over-The-Top (OTT) delivery.

Vietex Media's VMAP Server stands out as a revolutionary solution tailored for today's data centers. Built on proprietary packaging technology, the MXC delivers unparalleled power and cost efficiency for both live and file-based video processing.

The VMAP Server provides configurable CPU, transcode acceleration, and storage options, allowing you to optimize costs, power consumption, and performance according to your specific requirements. With full Adaptive Bitrate (ABR) capabilities, the VMAP is an ideal choice for Internet, Telco, Cable, and Satellite video service providers.

VMAP benefits

- Order of magnitude lower cost per stream compared to x86 based SW transcoders
- Size and power efficiency
- Scalable CPU performance for SW features
- Resolution flexibility; future proofing for HEVC
- Conformance to data center infrastructure
- High reliability
- High availability and serviceability

Features at a glance

Hardware
2U Rack enclosure

CPU:
Intel Processor with up to 16 Cores

Power Supply:
Dual 2400 Watts redundant

Modular design:
Hot swappable transcoder and storage modules

Video Codecs:
Up to 32 4K /128 FHD / 256 HD AVC or HEVC

Networking:
Dual 10/25/40/50/100GbE ports

VMAP-750

Media transcoding cluster, Incredibly fast

Media transcoding core is decentralized, able to operate on one or multiple servers, and automatically distributes transcoding threads within a cluster.

Widest RAW support, ever.

VMAP supports a wide range of file formats, including MOV, MXF, MP4, and Quicktime. Additionally, it allows users to work with various popular RAW formats, such as Sony, RED, BRAW, ProRes RAW, ARRI RAW (including Super 35), and Canon RAW.

Fully integrated with the MAM solution

The software service creates low-resolution video files through Transcode Proxy, automatically generating these files from content that has been uploaded or ingested into the Media Asset Management (MAM)

Processing Cluster

CPU	2 x Intel® Xeon® 3.6G, 8C/16T, 11.2GT/s, 18M Cache, Turbo, HT (165W) DDR4-3200
GPU	NVIDIA Ampere A16, PCIe, 250W, 64GB Passive, DW, FH GPU
Memory	8x 32GB DDR4 ECC
Storage	Configurable bays - 14 SSDs 2 x 960GB SATA 6.0Gb/s Solid State Drive 2 x 3.84TB Enterprise NVMe Read Intensive AG Drive U.2 Gen4
PCI Slots	Full Length, 4x16, 2x8 slots, DW GPU Capable
I/O	Front Ports • 1 x Dedicated iDRAC Direct micro-USB • 1 x USB 2.0 • 1 x VGA Rear Ports • 1 x USB 2.0 • 1 x Serial (optional) • 1 x USB 3.0 • 2 x RJ-45
Network	Quad Port 10/25GbE,SFP28, OCP NIC 3.0
OS	Microsoft Windows Server 2022 Standard (16-core)

Physical and Electrical

System Cooling	High Performance Fan x6
Management	iDRAC9, Enterprise 15G
Power	Dual, Hot-Plug, Fully Redundant Power Supply (1+1), 2400W
Form Factor	2U

Input Sources:

VMAP can process most common multimedia files sources that do not contain any kind of copy protection.

Outputs:

- File Containers: .MP4, .MOV and .MXF
- Video Encoders: AV1, H.265 and H.264, MPEG-4 and MPEG-2
- Audio Encoders: AAC / HE-AAC, MP3, FLAC, AC3, E-AC3
- Audio Pass-thru: AC-3, E-AC3, FLAC, DTS, DTS-HD, TrueHD, AAC, MP3 and MP2 tracks

Even more features

- Batch Scan and Queueing of encodes
- Constant Quality or Average Bitrate Video Encoding
- Managing AI video analysis processes supporting image recognition
- Live Static and Video Preview

Vietex Media GmbH
New media system integrator