

Media Streaming Server

M1200 Series

M1200 series is innovated as a media streaming server which support 2 node computing system and integrate 4 GPU devices to be a highly flexible GPUs configuration to empower streaming processing. Each node built in Intel® Xeon® E3-1500 v5 series CPU with C236 PCH to raise performance which is help media streaming providers for enterprise, education and entertainment areas.

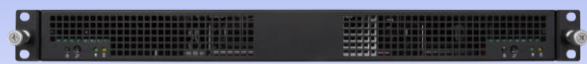
MSI M1200 Series

M1200

Rear side



Front side



Introduction

M1200 series empower media providers to support real-time and multi-stream HD and UHD content directly as well as live broadcasting and video conferencing. Each node equips up to four 2.5" HDDs for maximum capacity or additional content repository. State-of-the-art encoding, decoding and transcoding capability supported by Intel® Xeon® E3-1500 v5 series CPU and C236 PCH with flexible GPU module add-on option. Each CPU delivers up to 18 AVC or 8 HEVC streams at 1080p FPS or 2 HEVC streams at 4K 30 FPS.

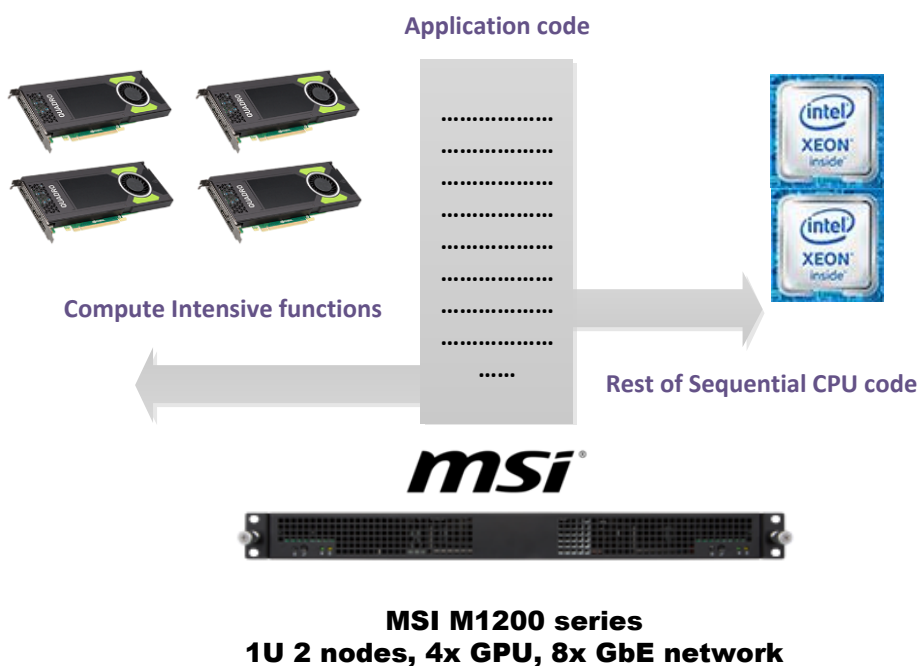
Key Features

- ✓ **2 nodes High density system** – 2 node design can provide 2 set of media system in one 1U server which could greatly save room space to construct a higher production in limited resource.
- ✓ **Great computing and Graphic processing** – M1200 series built in Intel® Xeon® Processor E3-1500 v5 series which has high processor frequency and cache (E3-1585 v5 ,8M Cache, 3.50 GHz). Especially integrated Intel® Iris™ Pro Graphics P580 (Max Dynamic Frequency 1.15 GHz, 64 GB) to support high quality video experience. The integrated Iris™ Pro Graphics P580 has advanced technology like Intel® Flexible Display Interface (Intel® FDI), Intel® Clear Video Technology, Intel® Quick Sync Video, etc. Each node can support 3 displays and 72 execution unit.
- ✓ **Low latency transmission** – Considering the heavy loading of live streaming network, M1200 has 8x 1GbE LAN ports to satisfy simultaneous high speed transmissions to meet real-time live service.


- ✓ **4 GPU accelerators** – Each node has Optional x16/x8+x8 PCIe slot for GPU acceleration modules to accommodate a variety of demand and application like nVidia, Intel and AMD solutions. By adding GPU accelerators to provide harness parallel processing and deliver performance augmentation in file streaming, video compression and any applications that require multiple iterations. GPU accelerators optimize CPU’s serial processing speed by taking over iterative and compute-intensive tasks. The GPU acceleration works as shown in figure 1.

Figure 1. GPU Acceleration works

GPU Acceleration Works



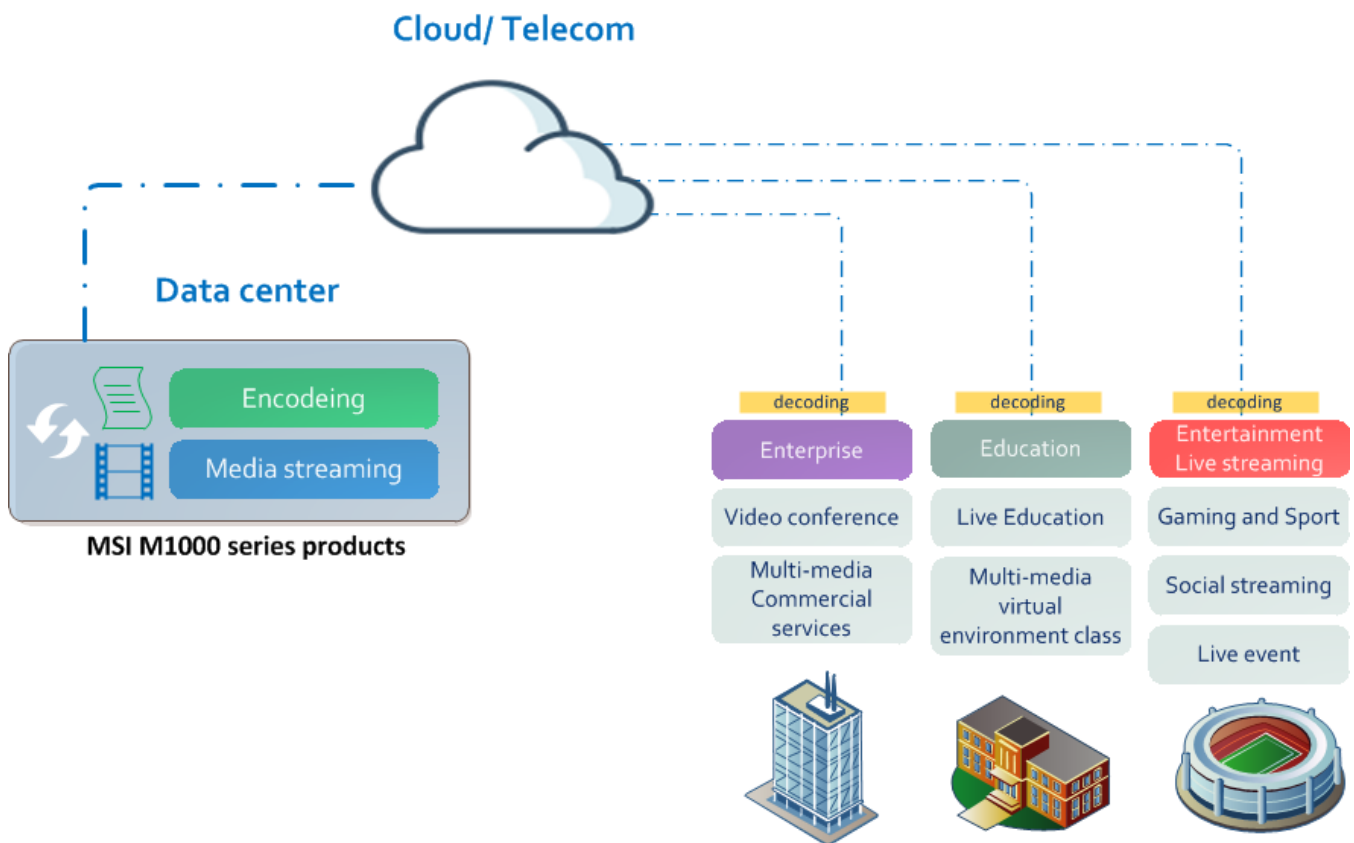
M1200 series platform unit each consists of two nodes. Below specification is shown with two nodes.

Model	<p style="text-align: center;">M1200</p> 
Form factor	1U 2 Nodes
Dimensions	17.2"W(438mm) × 1.7"H(43.6mm) × 27.6"D(700mm)
Color	Black
CPU	Each node - Single Intel® Xeon®E3-1500v5 product families
PCH	Intel® C236
Memory	8 x SODIMM slots, 2 channel DDR4, 1866/2133MHz ECC Registered up to 128GB
Storage	For 2 nodes 4 x Internal 2.5" HDDs (Optional) 2 x Internal M.2 2280 (Optional)
I/O	Front for 2 nodes: 2 x Power On/Off button 2 x System Reset button 4 x Power Status 2 x HDD Activity Rear for 2 nodes: 8 x GbE LAN ports (2 x Mgmt share NIC) 4 x USB 3.0 ports
Graphic	Intel® Iris™ Pro Graphics P580 4 x GPU modules (Optional)
Expansion	2 x PCIe 3.0 x16 (x16/x8x8 signal)
Security	TPM Header
Server Management	Optional Aspeed AST2400 IPMI 2.0 with iKVM support
Power supply	2 x single 500W PSU
Environment	Operating Temperature: 0°C ~ 40°C Operating Humidity: 0% ~ 85% (non-condensing)

M1200 series typical application

Global media applications are expanding through much media services as Facebook, Netflix and so on. This growing trend is driving the need for more media processing in the Telecom, Cloud and datacenter. It's vital important to have a role to do efficiently video transcoding and streaming to optimize network bandwidth usage while improving worldwide communication. Improved communication across various fields further boost collaboration between teams, effective communication channel, maintaining a central information archive, reducing transmission cost and time, and real-time access to information. There are enormous opportunities for media streaming server including entertainment business, education work and cloud info business, etc. Many benefits such as video communication, live webcasts, on-demand meeting recording, executive presentations, training, and product information continue to allow overall industry to flourish.

Figure 2. M1200 series typical application



For more information, please visit our website.
<http://server.msi.com>

