

## **Digitize – Cloud streaming**

### **Cloud streaming: the next-generation entertainment service**

Cloud streaming is an enabled efficient delivery and fast deployment of next-generation of entertainment area. Through cloud streaming technology, we can move the video processing and computing process on the cloud then delivers results of image and video to client. Attribute to this new service architecture, end-user only needs thin client NB/PC to run their various applications easily with lower cost and higher performance.

### **What Cloud streaming for**

#### **Faster deployment**

- Streaming works and management are implemented on cloud already. For the client site just need a simple setting for each user then remotely install thorough network wired/wireless quickly.

#### **Cost efficiency**

- Instant updating and deployment greatly improving time to developing and reducing overall cost.

#### **Improving quality service**

- High quality service depend on high bandwidth networking and powerful computing to encode/decode. MSI has already provided robust solutions to improve performance on cloud streaming.

#### **Reduce network latency**

- To sustain and offer high speed network are key factor to keep high quality service. MSI has series network security solutions to support such serious demand for wired/wireless transmission.

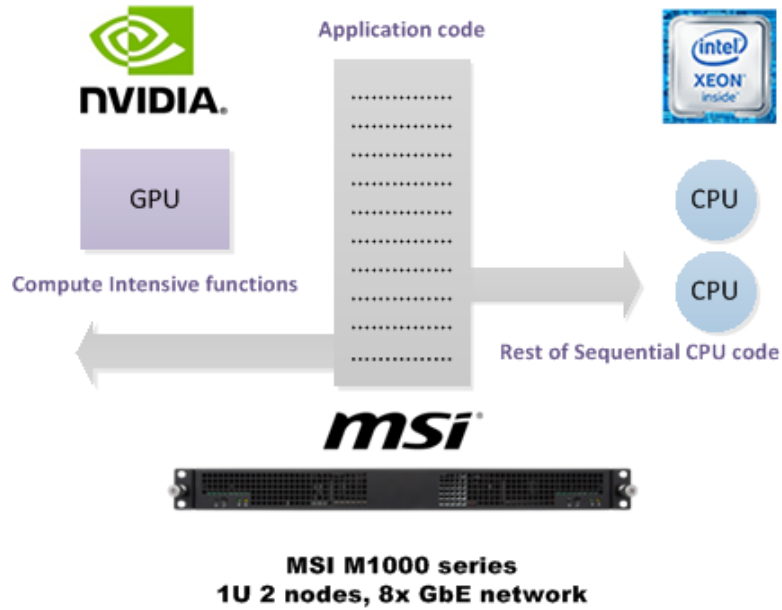
### **MSI M1000 streaming server boost Cloud Streaming**

MSI M1000 series empower real-time and multi-stream HD and UHD content directly. In Cloud streaming is 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.

M1000 series support the flexibility to switch x16/x8+x8 design based on GPU accelerators installed to upgrade computing performance and speed. GPU accelerators optimize CPU's serial processing speed by taking over iterative and compute-intensive tasks. GPU has a massively parallel architecture consisting of thousands of smaller, more efficient cores designed for handling multiple tasks at the same time. As figure 1. Presented.

Figure 1. NVIDIA Acceleration works

## GPU Acceleration Works

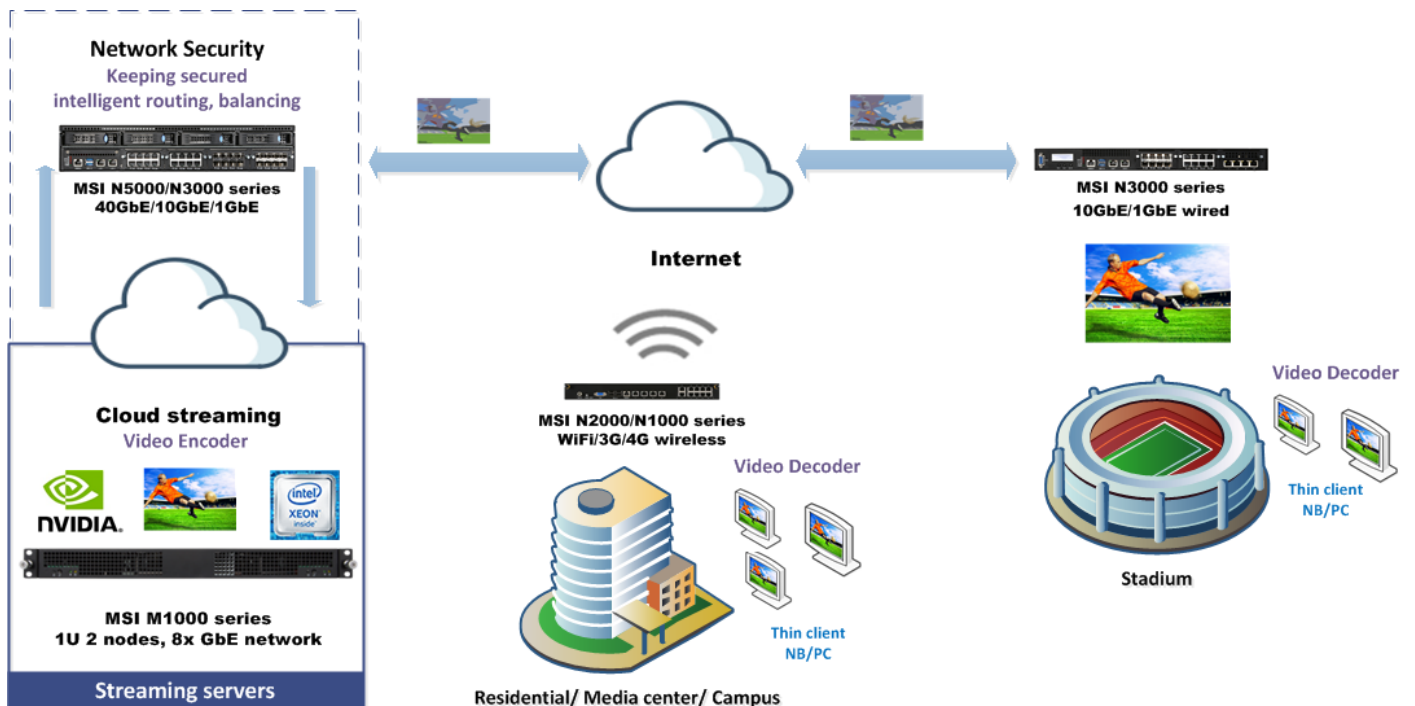


## Cloud streaming on MSI Network Security

Cloud streaming is a great idea for reducing cost and rise performance but it need great network reliability and high bandwidth as well. MSI Network Security provides robust wired/wireless networking models to support and sustain high streaming quality service. As figure 2, MSI has N5000/N3000 series to offer high speed and security for cloud site data transmission. Cloud streaming deliver encoded video to users through wired/wireless network, the N3000/N2000/N1000 could offer users access data from cloud to decode video/image and represent instantly.

MSI provides powerful streaming server M1000 series and flexible network security models to achieve next-generation entertainment service.

Figure 2. MSI Cloud streaming solutions





**Media Streaming System**

Decode and encode video solution

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**Performance**

High end security solution in  
Telecom and large enterprise

[o\\_o : Discover](#)



**Mainstream**

Enterprise and campus  
security solution

[o\\_o : Discover](#)



**Server Message Block  
(SMB)**

Small box security service and vCPE  
solution

[o\\_o : Discover](#)