

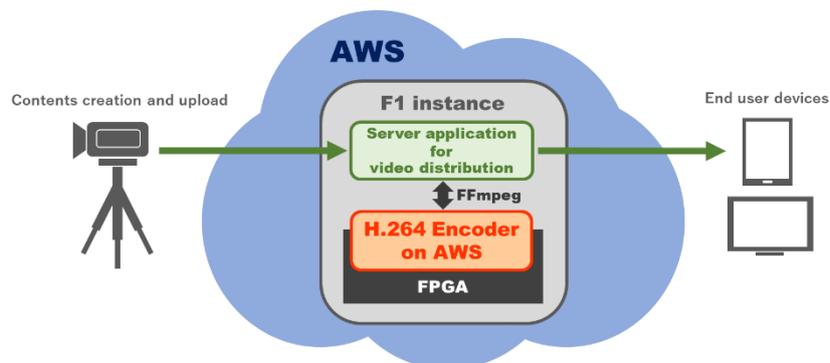
Socionext Delivers High-speed, High-quality H.264 Video Encoder Available on Amazon Web Services

Enables Major Reduction in Time from Video Production to Delivery

Yokohama, September 8, 2020 --- Socionext Inc., a leading provider of System-on-Chip based solutions for video and imaging technologies, has developed the "H.264 Encoder on AWS", a high-speed, high-quality H.264 video encoder available on Amazon Web Services. Compared to conventional systems, the encoder helps video distribution service providers to expedite their content production to delivery time by 70% without compromising on quality. The H.264 Encoder on AWS enables users to enhance the quality of their services and increase the number of titles at a reasonable cost.

The H.264 Encoder on AWS operates on the F1 instance of Amazon Elastic Compute Cloud (EC2) service. It complies with the H.264 encoding standard which is most commonly used in video distribution on the Internet today, delivering superior image quality compression and high-speed processing to video distribution service providers.

The AWS F1 instance offers FPGA devices that users can program a hardware circuit. The H.264 Encoder on AWS utilizes the FPGA on the F1 instance and provides an accelerator circuit based on Socionext's proprietary hardware encoder technology. It enables a high image quality video data compression at a speed unattainable by a software-based encoder. As its application interface, the encoder uses FFmpeg, which is widely used by video distribution services, so service providers can easily incorporate the encoder into existing systems.



System example with H.264 Encoder on AWS

Socionext will continue delivering solutions to the cloud-based video distribution market to meet the growing demand, through the "H.264 Encoder on AWS" as well as other System-on-Chip products that feature the company's advanced video processing technology.

Main Specifications of H.264 Encoder on AWS

Items	Specifications
Platform	AWS / EC2 Service / F1 Instance
Video Resolution	Max. 1920 x 1080 pixels
Pixel Format	4:2:0 / 8 bit
Frame Rate	Max. 120fps at 1920 x 1080 resolution
Multi-Channel Operation	Available (example: 4 x 30fps at 1920 x 1080)
Latency	About 1 sec with High Video Quality setting About 100 msec with Low Latency setting
Video Quality	x264 veryslow preset level 2-Path encoding available

About Socionext

Socionext is a global, innovative enterprise that designs, develops and delivers System-on-Chip solutions to customers worldwide. The company is focused on technologies that drive today's leading-edge applications in consumer, automotive and industrial markets. Socionext combines world-class expertise, experience, and an extensive IP portfolio to provide exceptional solutions and ensure a better quality of experience for customers. Founded in 2015, Socionext Inc. is headquartered in Yokohama, and has offices in Japan, Asia, United States and Europe to lead its product development and sales activities.

For more information, visit <https://www.socionext.com/en/> .

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