

Socionext's New Media Edge Server with Codec Functionality Enables Expanded Video Data Utilization Solutions

Data Analysis and Capturing Meta-Data Allows Use of More Value-Added Video Data

Yokohama, April 18, 2017 --- Socionext Inc., a global expert in SoC-based imaging and computing solutions, has developed a prototype of a media edge server, the M820, which features the company's hybrid codec technology. A demonstration utilizing TeraFaces®, the face recognition software provided by Tera Probe, Inc., will be showcased during the upcoming Medtec Japan at Tokyo Big Sight April 19-21, and at the NAB show at the Las Vegas Convention Center April 24-27.

The M820 is a new media edge server equipped with Socionext's multi-format codec MB86M30 and high-efficiency SC2A11A central processor. The M820 features Socionext's hybrid codec technology, the optimal combination of high-speed data processing using dedicated hardware and flexible, software-based processing by a general-purpose CPU. It enables data processing such as video decoding and encoding, meta-data capturing through real-time analysis, and meta-data integration to the original video. The high value-added data generated by the M820 can be used for additional complex and sophisticated processes, including its use with artificial intelligence (AI) in the cloud.



Photo: Media Edge Server M820

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As an example of solutions enabled by the M820 server, Socionext has demonstrated real-time data processing using the face recognition software TeraFaces, to detect positions of individual faces in a video, then identify if those individuals match the faces of those who were registered, and then integrate the generated information with the video data.

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Socionext will showcase the solution at the upcoming Medtec Japan and the annual NAB show. With the M820, Socionext will continue to propose new solutions in various fields where data analysis and hybrid codec technology can be utilized.

About Medtec Japan: <http://www.medtecjapan.com/en>

About NAB Show: <http://www.nabshow.com>

Main Specifications of M820

Interface	LAN port	Gigabit Ethernet (RJ-45) x2
	SDI	3G/HD/SD-SDI x4 (Up to 4K)
	DVB-ASI	MPEG2-TS x4
Codec	Video / Audio	HEVC/AVC/MPEG2 multi format codec Low latency encoding
System	OS	Linux based application environment
Main Components	CPU	SC2A11A (ARM Core-based high-efficiency processor)
	Codec	MB86M30 (HEVC/AVC/MPEG-2 Codec)

About TeraFaces

TeraFaces is a face recognition software provided by Tera Probe, Inc. It detects feature points of people's faces in the video (center of an eye, edge of lips, etc.), measures the distances between these feature points, then identify individuals by matching these data. Images of human faces vary daily due to hairstyles, facial expressions, growth, aging, orthography, shaping, sickness, injury and so on. Data correction for authenticating without being affected by these factors is a big challenge, in order for the technology to be used in practical use. TeraFaces has achieved the world-class face recognition rate, by solving the data correction issue.

“TeraFace” is a registered trademark of Tera Probe, Inc., in Japan, China and the United States.

About Socionext Inc.

Socionext is a new, innovative enterprise that designs, develops and delivers System-on-Chip products to customers worldwide. The company is focused on imaging, networking, computing and other dynamic technologies that drive today's leading-edge applications. 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 socionext.com.

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