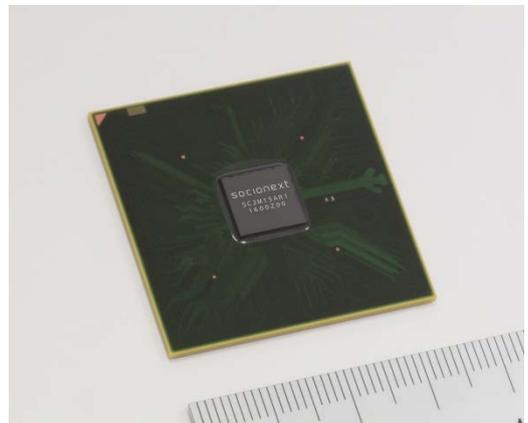


## Socionext Introduces High Image Quality, H.264 Full-HD Multi-Channel Codec

--- Offers Optimum Solutions to the Growing Market of Video Transmission Equipment ---

**Yokohama, September 6, 2016** --- Socionext Inc., an emerging leader in advanced SoC technology for video and imaging systems, today announced the release of SC2M15, a new codec IC designed for video transmission equipment. The device can process decoding, transcoding and encoding of H.264/HVC video and audio signals with a single chip, and is suitable for applications including digital broadcasting and video streaming through Internet Protocol among others. Socionext will start volume shipments of the SC2M15 at the end of September.

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In addition to the conventional digital broadcasting, new applications such as video distribution through Internet Protocol (IP), infrastructure surveillance and medical imaging are driving the expansion of the video transmission equipment market. Requirements for these kinds of equipment include higher stability and lower overall system cost. To keep pace with such needs, the transition is underway from software-based to hardware-based architectures. Socionext's new codec IC meets those challenges, providing essential functions such as transcoding of multiple video streams and high image quality encoding at low bit rates.



SC2M15  
[View larger image](#)

Developed based on the company's long-time experience on signal processing technology, the SC2M15 is equipped with all the necessary and sufficient functions for video transmission, which includes simultaneous transcoding of three channels of H.264 / full-HD video and audio, high image quality encoding at a low bit rate such as 1080i60 and 2Mbps. In addition, the SC2M15 is designed as a slave-type device, meaning it can be controlled by external CPU through serial interface, giving users the freedom to design various equipment for wide range of applications including digital broadcasting, security systems, and medical imaging, as well as video capture and in-house video communication systems.

Socionext aims to be the world's leading solution provider in the video transmission equipment market, by offering advanced codec products like SC2M15 and related services.

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Main specifications of SC2M15 include the following:

Video	Encoding	H.264 4:2:0 8bit (up to 1080p60, 1080i60)
	Decoding	Multiple channel operation: one input to three output
	Transcoding	H.264 4:2:0 8bit (up to 1080p60, 1080i60) MPEG2 4:2:0 8bit (up to 1080p60) MPEG2 to H.264, H.264 to H.264 Multiple channel operation: maximum 1080i60 x 3 channels
Audio	Encoding	MPEG-2 AAC, HE-AAC and MPEG-1 Audio Layer 2
	Transcoding	MPEG-2 AAC, HE-AAC and MPEG-1 Audio Layer 2
	Pass Through*	MPEG-2 AAC, HE-AAC and MPEG-1 Audio Layer 2, AC3
Image Pre-Processing	Scaling	
	OSD overlay*	
	De-Interlacing	
Interface	Control	UART x 1ch
	Stream	TS-Serial Input x 2ch, Output x 2ch, Ethernet MAC (RGMII ) x 1ch
	Peripheral	USB Storage (2.0 x 1ch, 3.0 x 1ch)
	Audio/Video	I2S Input x 1ch, I2S Output x 1ch, Video Parallel Input (YCbCr422) x 1ch, Video Parallel Output (YCbCr422) x 1ch, HDMI-Tx x 1ch
System	Memory	(16bit x 2) DDR3 1600Mbps x 2
	Boot Device	NAND Flash ROM
	Package	FC-BGA (35mm x 35mm, 1.0mm-pin pitch)

\* Optional

### **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](http://socionext.com).

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