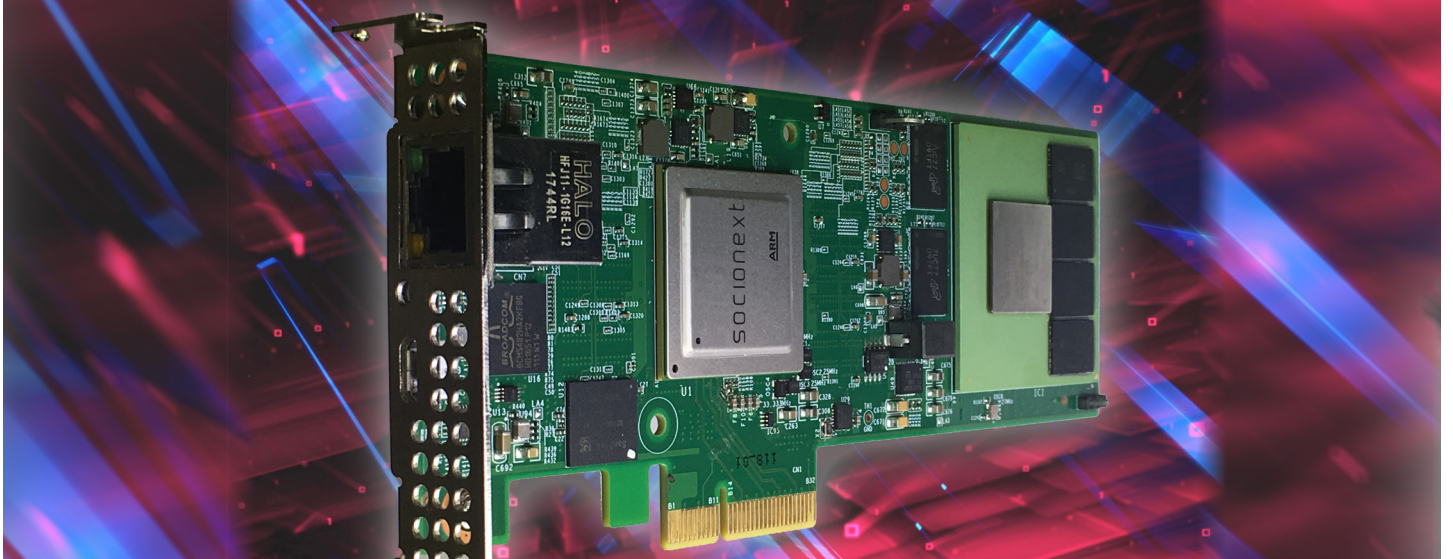


M820 Series

M820L Media Accelerator Card



Overview

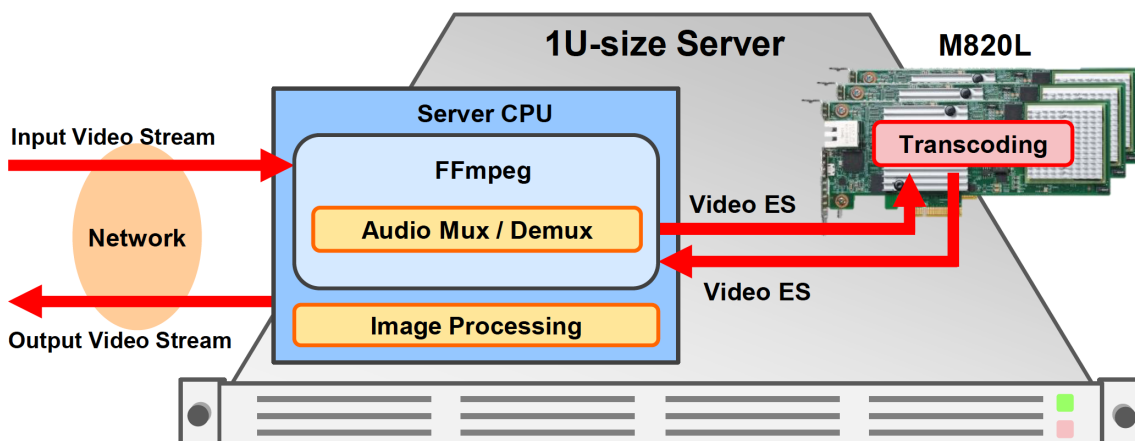
'M820L' is a media accelerator card that can be attached to server system to accelerate codec processes without changing existing users' server configuration.

M820L supports multi-format and multichannel codec with Socionext's Hybrid Codec Technology which consists powerful hardware engine and flexible software.

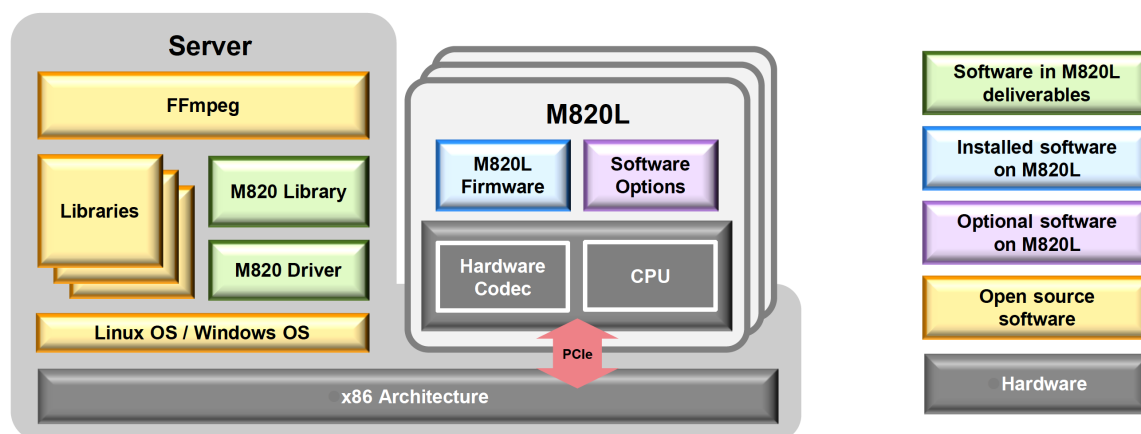
M820L is provided with software library that enables users to use function of M820L through FFmpeg which is one of the most popular software in media processing.

Applications

- Live Transcoding System of Social Networking Service
- Offline Transcoding System of Social Networking Service
- Transcoding System of Video Archive
- Transcoding System of Surveillance Center



Architecture



Specifications

Item		Specification
Hardware	CPU	Socionext SC2A11 (SynQuacer™)
	Hardware Codec	Socionext Multi-format Codec MB86M30
	PCI Express	Gen 2.0, 4 lanes card edge
	Power Supply	12 V (+/- 8%) / 2 A (supplied from PCI Express card edge)
	Power Consumption	24 W
	Size	167 mm x 69 mm x 20 mm, (without low profile or standard I/O bracket)
	Weight	135 g (with low profile I/O bracket), 138 g (with standard I/O bracket)
Function	Accelerated Process	Encoding or Transcoding to HEVC Encoding or Transcoding to AVC
	HEVC Encoding	Profile : Main/Main10/Main 4:2:2 10, Level : Up to 5.2
	AVC Encoding	Profile : BP/MP/HP/High10/High 4:2:2, Level : Up to 5.2
	Resolution	296x192 – 4096x2160
	Framerate	120p, 60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.97p,
	Bitrate	100K to 240Mbps
	Bit Depth	8, 10bit
	Chroma Format	4:2:0, 4:2:2
	Rate Control	CBR, VBR
	GOP Length	1-255 frames (fixed/variable)
	GOP Structure	I-only, Closed GOP/Open GOP
	Example of Max Channel Count	Encoding with 720p30 : 16ch Transcoding with 720p30 : 6ch
	HDR10 / HLG	Supported (with static meta data)
OS		Red Hat Enterprise Linux 7.6, Windows Server 2016

* This specification is subject to change without notice.

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