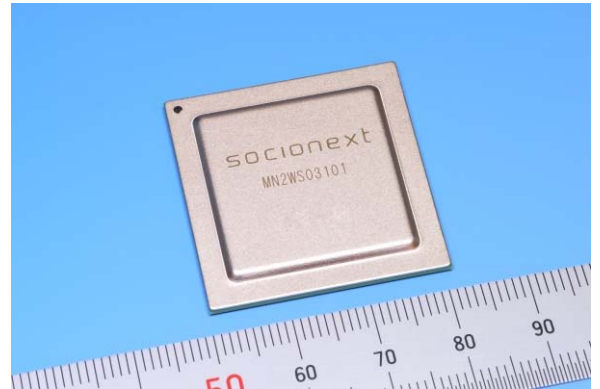


Single-chip LSI for 4K Media-playback MN2WS03101AA

■ Overview

“MN2WS03101AA” is application LSI for 4K-Visual Box system.

It supports genuine native 4K media processing @HEVC 4K60p.



■ Features

- 4K60p HEVC Main10(160Mbps) Video Decoding
- 2K30p H.264 Multi-channel Codec
- Multi Window/ Contents Video Processing
- HDMI2.0 Tx/ Rx with HDCP2.2 (embedded PHY)

■ Applications

Blu-ray Disc™ Player, Media Player



Surveillance Monitoring/ Recording



Digital Signage



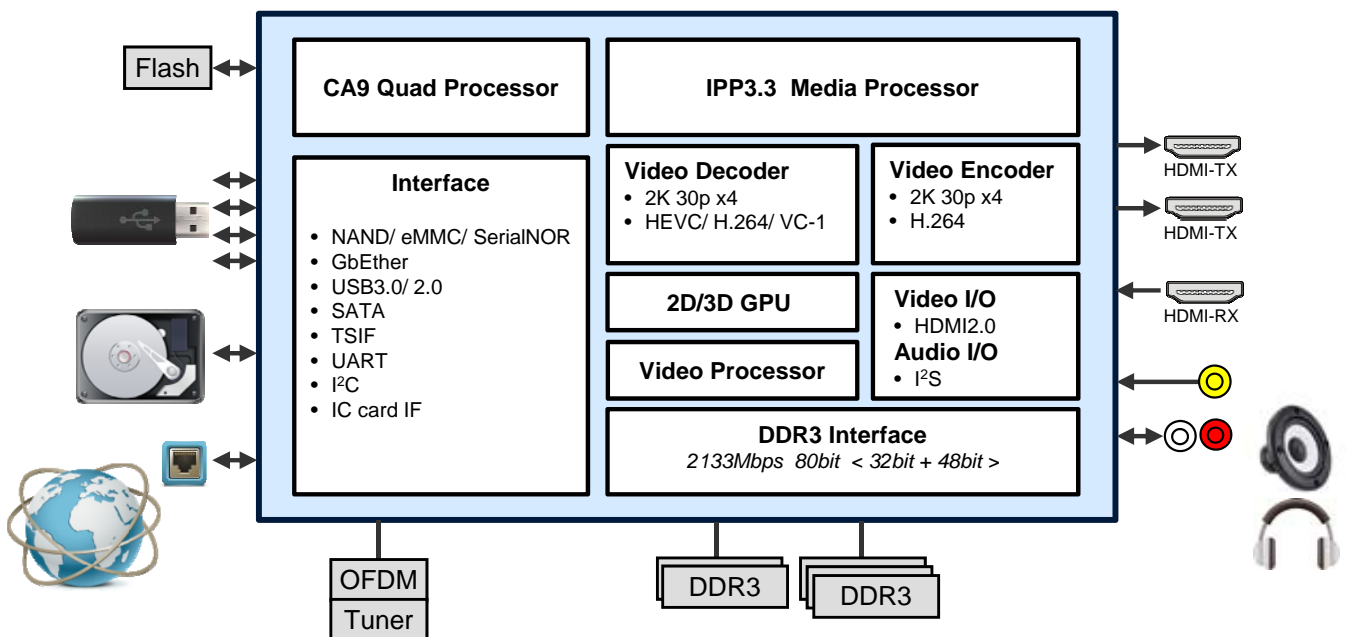
Home Gateway



■ Specifications

Function		Specifications
Package		FCBGA 31x31mm (0.8mm pitch)
CPU		CortexA9 1.2GHz Quad processor IPP3.3 1.2GHz Media Processor
Video decoder		H.264/ VC1: 1080p30 x4ch or H.264: 2160p60 x1ch or HEVC: 2160p60(MP10) x1ch
Video encoder		H.264: 1080p30 x4ch
Video processor		UHD-HDR / Resize / NR / CSC / Contrast / Sharpness / Blending
Video output		BT.2020 / BT.709 / BT.601 UHD 60Hz x2port
GPU		OpenGL ES Graphic Engine ReCS704 (2Gpix/s)
I/F	Video output	HDMI-Tx 2.0 x2port
	Video input	HDMI-Rx 2.0 x1port / Digital Input x1 (Y/C-8bit, 1080p60)
	Audio output	I2S x1port (max.3), SPDIF x1port
	Audio input	I2S x1port
	Ethernet	Gigabit w/o PHY
	SATA	SATA 3.0 gen3 x1ch
	USB	USB3.0 Host x2ch, USB2.0 Host x2ch
	Flash I/F	NAND, eMMC4.4, QSPI-NOR

■ Block Diagram



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