

System-on-Chip for VDI Terminal and Cloud Endpoints SC1110



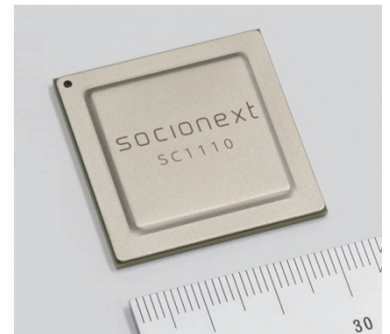
Overview

The Socionext “SC1110” System-on-Chip processor, named “PXiV”, is a highly integrated device designed for virtual and cloud environments.

This SoC features PCoIP® hardware decode technology and optimized accelerators providing higher pixel throughput and lower latency for PCoIP® Zero Clients, thin clients and cloud endpoints.

This SoC has integrated 2x 4K Ultra HD outputs which results in a rich user experience and higher productivity for creative works. Integration of USB 3.0 and SDIO interfaces provide the capability of supporting various connectivity required for modern virtual and cloud-based endpoints.

On top of that, this SoC supports 4K Ultra HD H.264 video decoding and 2K Full HD H.264 video encoding, which expands use cases, such as digital signage, automotive, interactive media streaming and more.



SC1110

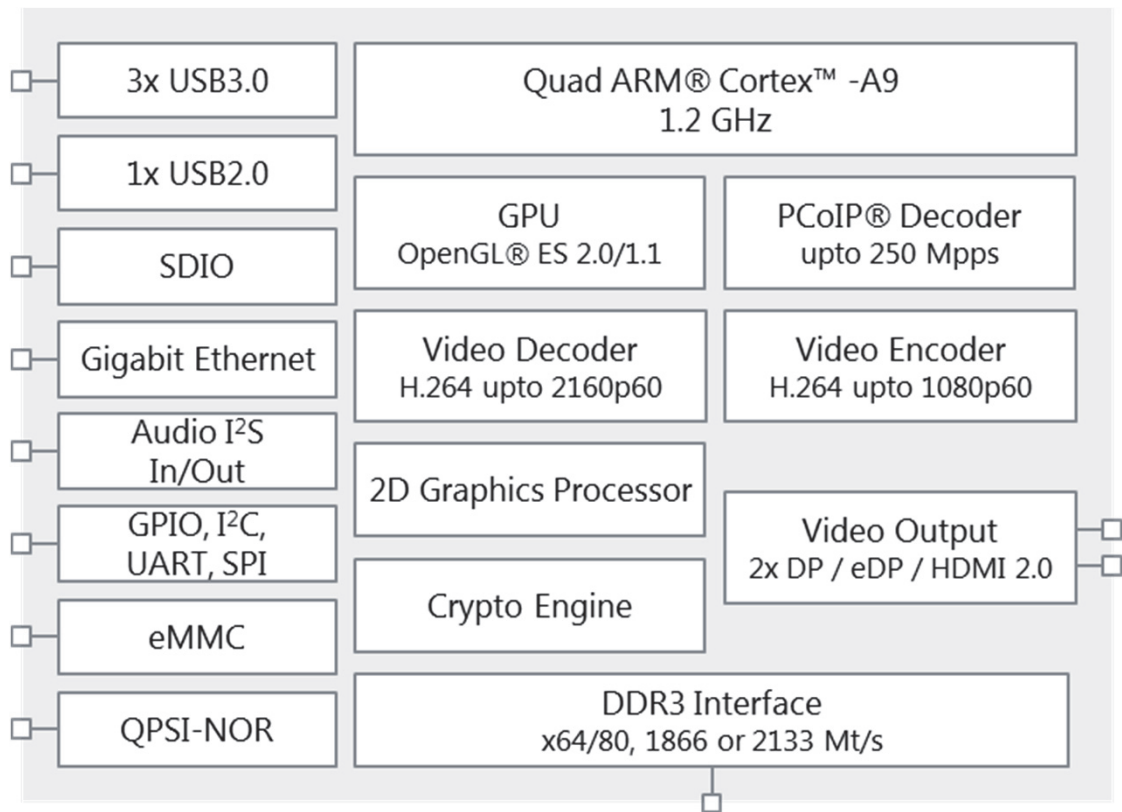
Features

- Support for two 4K UHD display output
- BitBlit Processor minimize the latency for image output
- Integrated USB 3.0 host controller
- Wi-Fi and Bluetooth® support via SDIO interface
- Dedicated hardware codec engines support 4K Ultra HD H.264 video decoding and 2K Full HD H.264 video encoding
- Hardware crypto engine accelerating various algorithms for communication, data protection and security
- High performance processing with CPU (Quad ARM® Cortex®-A9 MPCore™) and GPU (OpenGL® ES 2.0/1.1 Compliant)

Applications

- VDI Endpoints
- Cloud-based Application Endpoints
- Digital Signage

Block Diagram



Specifications

Product No.	SC1110AR3-0SY	
Package	FCBGA, 31 x 31mm (0.8mm pitch)	
CPU	Quad ARM® Cortex®-A9 MPCore™ 1.2 GHz	
Graphics	OpenGL® ES 2.0/1.1 compliant	
Virtual Display Processor	PCoIP® Hardware Decoder up to 250 Mpps	
Video Decoder	H.264 up to 2160p60	
Video Encoder	H.264 up to 1080p60	
2D Graphics	BitBlit Processor, supports blending, scaling, and rotation	
I/O	Video Output	2x HDMI 2.0 Tx, eDP-Tx or DP v1.2
	Audio	1x I²S input and 1x I²S or S/PDIF output
	Ethernet	1x Gigabit Ethernet MAC controller with RMI/II/RGMII interface
	USB	3x USB 3.0 host and 1x USB 2.0 host
	SDIO	1x SD host interface supports SDIO
	Flash	1x eMMC and 1x QSPI-NOR
	Others	GPIO, UART, SPI, I²C
DDR Memory	64/80bit DDR3 interface running 1866 or 2166 Mt/s	

Featured Partner

Teradici PCoIP® Zero Clients Solution for Virtual and Cloud Environments Teradici Corp.

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