EXHIBIT 1

Exhibit A – AST's Preliminary Infringement Contentions Claim Chart of Asserted Claims – U.S. Patent No. 7,804,435

The following is intended to provide examples of infringement by NXP's i.MX family of microprocesson products with substantially similar features and functionality (the "Accused Instrumentalities"), without limitation. The following claim chart supplements the allegations made in the Complaint (ECF No. 1) and Exhibit A (ECF I incorporates by reference in full. This preliminary claim chart exists to supply reasonable notice of AST's infringenet and exhaustive recitation of every possible theory and instance of infringement. The claim construction process AST's factual investigation remains ongoing, and AST believes NXP and third parties uniquely possess information infringement of these asserted claims, including source code. AST thus cannot provide its complete and final corrasserted claims until discovery as to the Accused Instrumentalities, including inspection and source code review.

Claim 1	Evidence of Infringement
[1a] An apparatus comprising:	The Accused Instrumentalities are or include an apparatus within the meaning of this of example and not limitation, the i.MX QuadMax Applications Processor is an applic including a Video Processing Unit.
	This chapter introduces the i.MX 8QuadMax (i.MX8QM). The i.MX8QM is a fully comprehensive multimedia device targeting high-end automotive and industrial mark segments. The chip is built using a leading edge process to achieve both high-performances and low-power consumption. The chip relies on a powerful fully-coher core complex based on a dual (2x) Cortex-A72 cluster for use-cases requiring high-computing performances and a quad (4x) Cortex-A53 cluster running most of the use cases at a lower-power consumption.
	See i.MX 8QuadMax Applications Processor Reference Manual, § 1.1.1, Document N Rev 0, 9/2021 (downloaded from nxp.com).
	 1x VPU 4x M0+ processors with 16KB Cache (1x for decode, 2x for encode, 1x for transport stream) Supports H.265 decode (4Kp60) Supports H.264 decode (4Kp30) H.264 encoder (1080p30)
	See i.MX 8QuadMax Applications Processor Reference Manual, § 1.1.2, Document N Rev 0, 9/2021 (downloaded from nxp.com).

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Claim 1	Evidence of Infringement
	As another example, the i.MZ 8M Applications Processors are applications processors Processing Unit.
	1.1 Product Overview
	This chapter introduces the architecture of the i.MX 8M Dual/8M QuadLite/ Applications Processors.
	The i.MX 8M Dual/8M QuadLite/8M Quad is a family of products focused an excellent 4K video and audio experience, combining media-specific featu- high-performance processing optimized for low-power consumption.
	1.2 Target Applications
	The i.MX 8M Dual/8M QuadLite/8M Quad Applications Processors achieved performance and low power consumption and rely on a powerful, fully-cohe complex based on a quad Cortex-A53 cluster, with graphics processing GPU the latest graphic APIs.
	i.MX 8M Dual/8M QuadLite/8M Quad Applications Processors Reference Manual, § IMX8MDQLQRM, Rev. 3.1, 06/2021 (downloaded from nxp.com).

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Claim 1	Evidence of Infringement
	1.4.10 Video Processing Unit (VPU)
	The chip incorporates the following Video Processing Unit (VPU) fea
	• VP9 Profile 0, 2 (10 bit) decoder (VPU G2)
	HEVC/H.265 Main, Main10 decoder (VPU G2)
	• AVC/H.264 Baseline, Main, High decoder (VPU G1)
	• VP8 decoder (VPU G1)
	 Frame Buffer Compression – Lossless compression of buffers
	TrustZone support
	i.MX 8M Dual/8M QuadLite/8M Quad Applications Processors Reference Manual, § No.: IMX8MDQLQRM, Rev. 3.1, 06/2021 (downloaded from nxp.com).

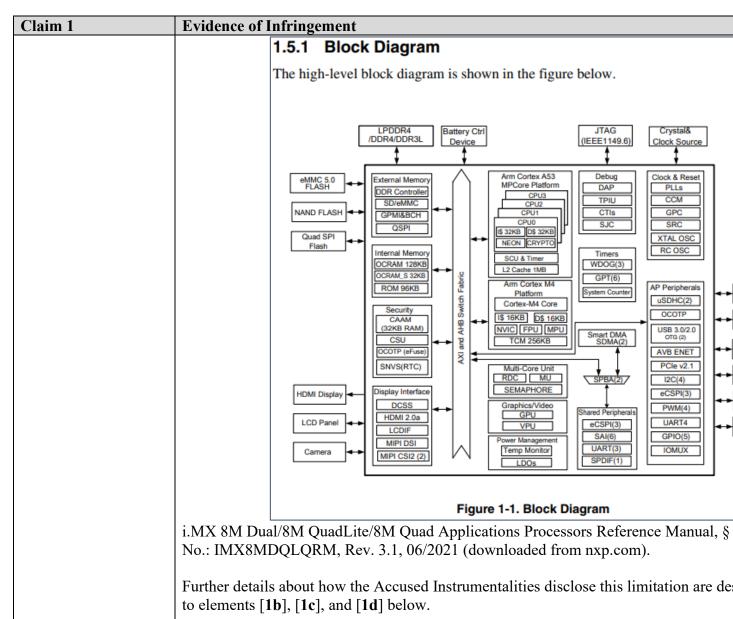


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