



Layerscape® 1028A Applications Processor

LS1028A

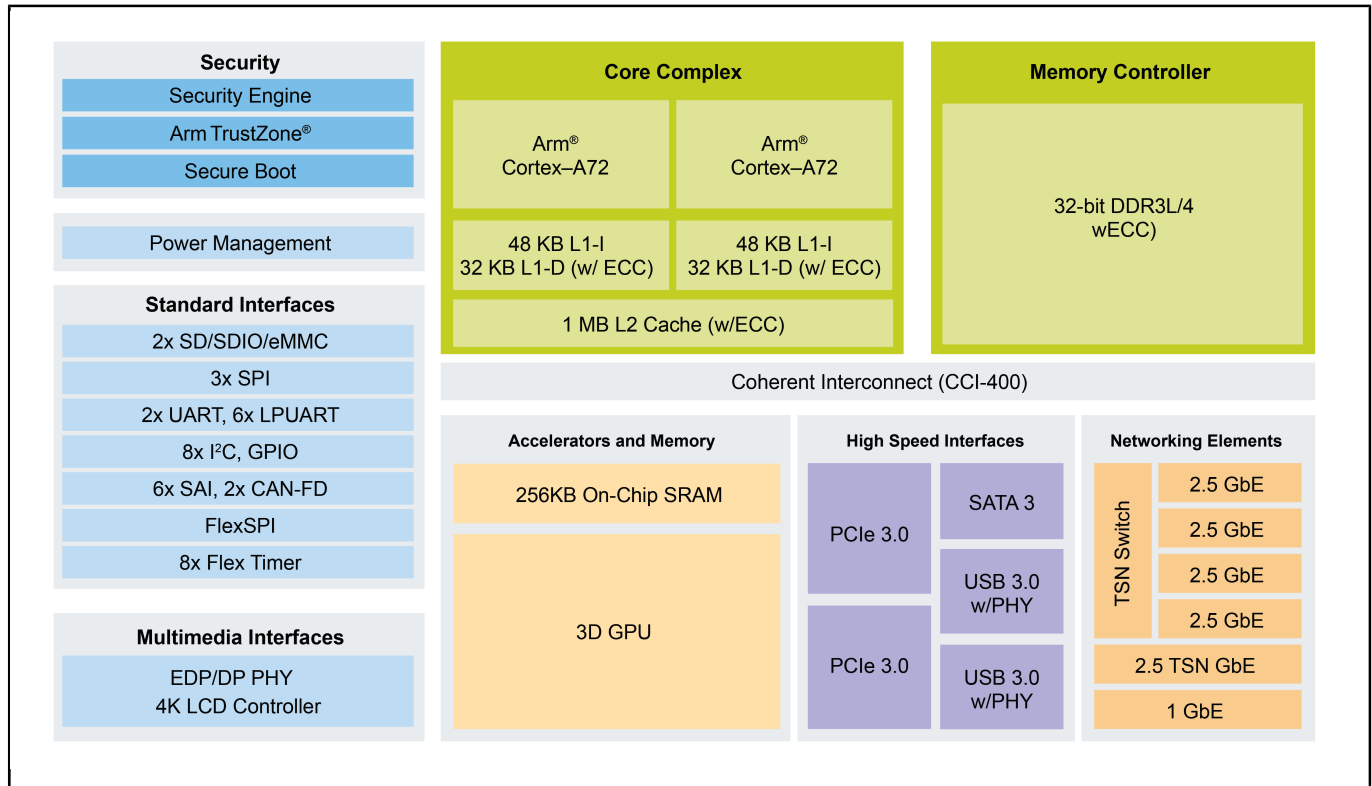
Last Updated: Apr 11, 2024

The Layerscape LS1028A processors for industrial and automotive applications integrates the high-performance Arm® Cortex®-A72 processor, Ethernet switching with TSN, Ethernet controller and Trust Architecture with Security Engine to support converged IT and OT networks.

Two powerful 64-bit Arm A72 cores support real-time processing for industrial control and virtual machines for edge computing in the IoT. The integrated 3D GPU with support for 4K display and LCD controller enable Human-Machine Interface (HMI) systems with next-generation interfaces. Integrated Trust Architecture with cryptographic offload provides a trusted platform with encrypted communications for secure applications and services.

Layerscape processors are part of NXP's EdgeVerse™ edge computing platform.

Layerscape LS1028A Block Diagram Block Diagram



View additional information for [Layerscape® 1028A Applications Processor](#).

Note: The information on this document is subject to change without notice.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2024 NXP B.V.