



Layerscape® LX2160A, LX2120A, LX2080A Processors

LX2160A

Last Updated: Apr 11, 2024

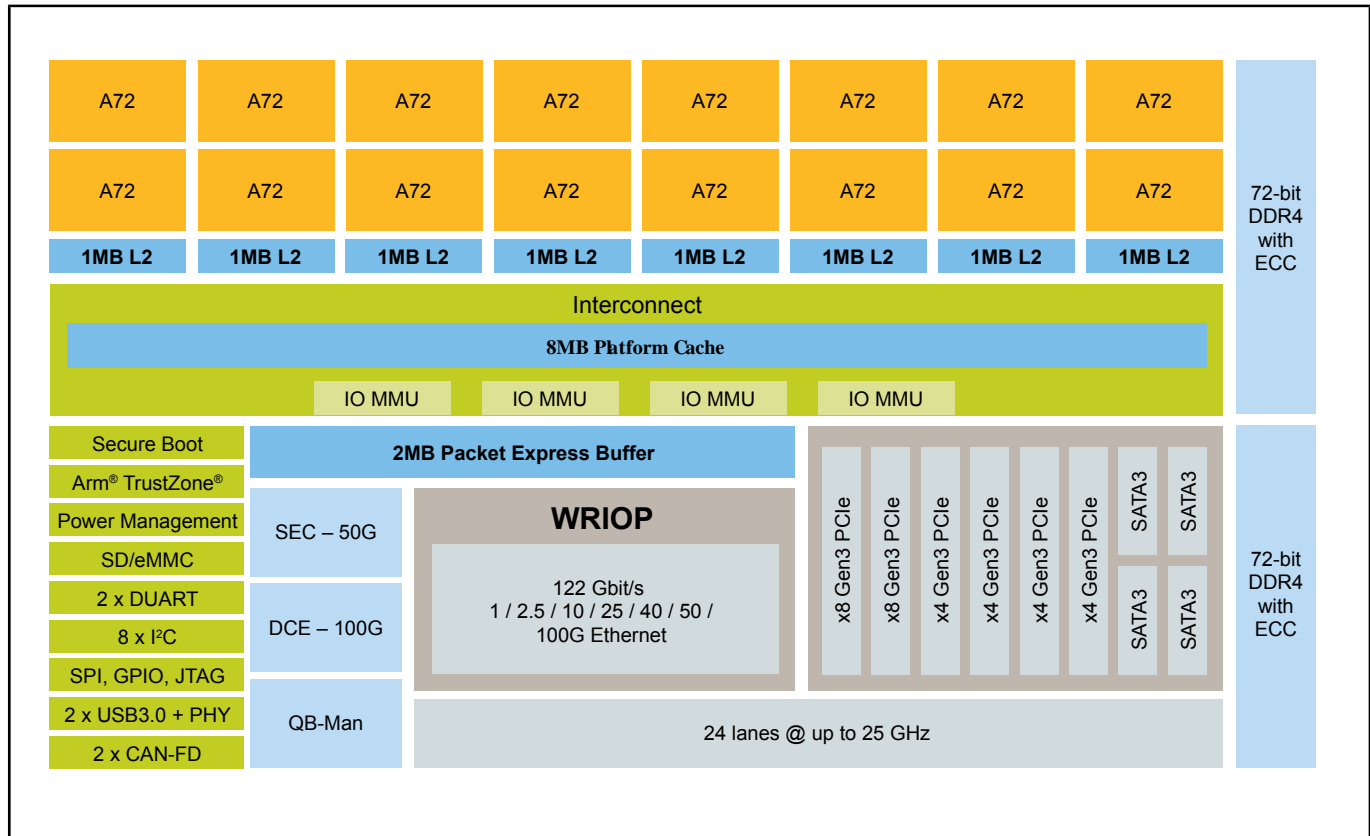
The LX2160A multicore processor, the highest-performance member of the Layerscape family, combines FinFET process technology's low power and sixteen Arm® Cortex®-A72 cores with datapath acceleration optimized for L2/3 packet processing, together with security offload, robust traffic management and quality of service.

This advanced sixteen-core 64-bit Arm processor is ideal for applications such as 5G packet processing, network function virtualization (NFV), white-box switching, high-processing industrial computers, machine learning and smart Network Interface Cards. The high level of integration delivers significant performance benefits such as 100 GbE, hardware L2 switching, DPAA2 with 100 Gbps decompression/compression and 50 Gbps SEC and multiple PCIe Gen3.0 and SATA controllers.

For Edge Computing, this processor offers outstanding computing performance with a powerful packet offload and Ethernet controllers. You can have high-end and high-speed communications in one device, with low-speed peripherals such as sensors and the computing power to process and act upon all received information.

Layerscape processors are part of NXP's EdgeVerse™ [edge computing](#) platform.

Layerscape LX2160A Block Diagram Block Diagram



View additional information for [Layerscape® LX2160A, LX2120A, LX2080A Processors](#).

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.