

Layerscape® 1012A Low Power Processor

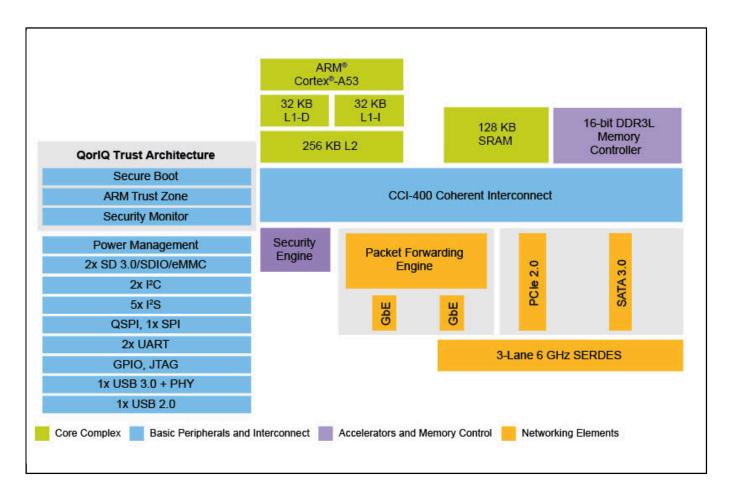
LS1012A

Last Updated: Dec 16, 2024

The LS1012A processor, optimized for battery-backed or USB-powered, space-constrained networking and IoT applications, integrates a single Arm® Cortex®-A53 core running up to 1GHz with a hardware packet forwarding engine and high-speed interfaces to deliver line-rate networking performance in an ultra-small size envelope at 1W typical power dissipation. The LS1012A incorporates the same Trust Architecture and software compatibility of higher-tier LS family devices, enabling scalable, secure applications that leverage a common 64-bit software platform.

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

LS1012A Block Diagram Block Diagram



View additional information for Layerscape® 1012A Low Power 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. © 2025 NXP B.V.