



Layerscape Linux Distribution POC

LAYERSCAPE-SDK

Last Updated: Sep 27, 2024

Layerscape LDP is the industry standard of Linux enablement software for Layerscape family of processors. It provides all the necessary drivers, tools, and libraries required to enable all features of the Arm®-based Layerscape processors.

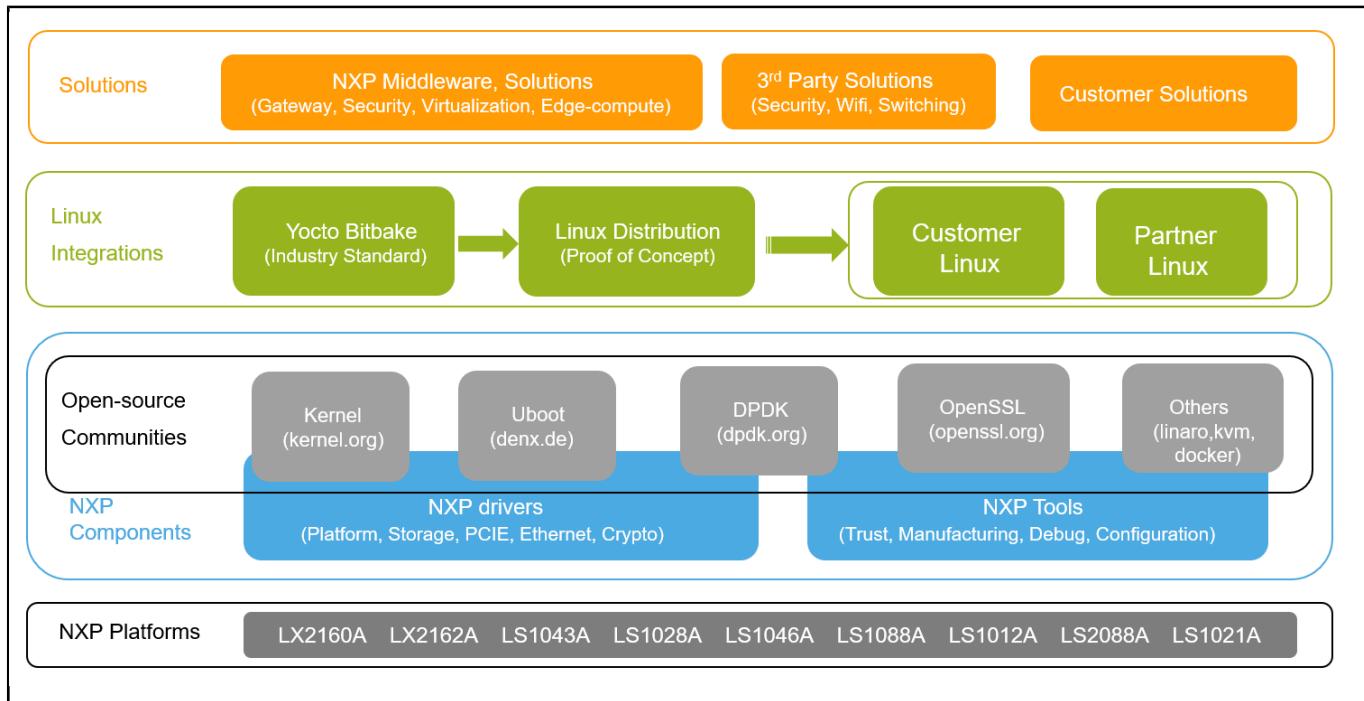
Layerscape LDP has been tested and qualified, ensuring a fully operational boot loader, kernel, and board-specific modules that are ready to use together within a flexible configuration for specific hardware reference platforms.

There are three ways to use the Linux enablement software from NXP:

- As a complete reference integration¹ with an LDP distro user-space² which allows users to quickly deploy and test-drive various features on a Layerscape reference design platform.
- As individual components including kernel drivers, U-Boot and UEFI boot loaders, firmware, and user-space libraries that can be integrated into a Linux distribution. The LDP components are commercial grade and thoroughly tested with years of development expertise going into them. These components form the basis for integration into community, commercial, and customer Linux distributions.
- As part of open source communities like kernel.org, dpdk.org, denx.de (U-Boot).

Notes: This is a combination of NXP provided kernel and boot loaders with an LDP distro user-space image. NXP Layerscape processors are compliant with Arm® standards and are capable of running thousands of Linux applications in binary form.

NXP Linux Software Block Diagram



View additional information for [Layerscape Linux Distribution POC](#).

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. © 2026 NXP B.V.