



Layerscape 1046A Processor Broadband Home Router Application Solutions Kit

QORIQ-LS1046A-BHR-ASK

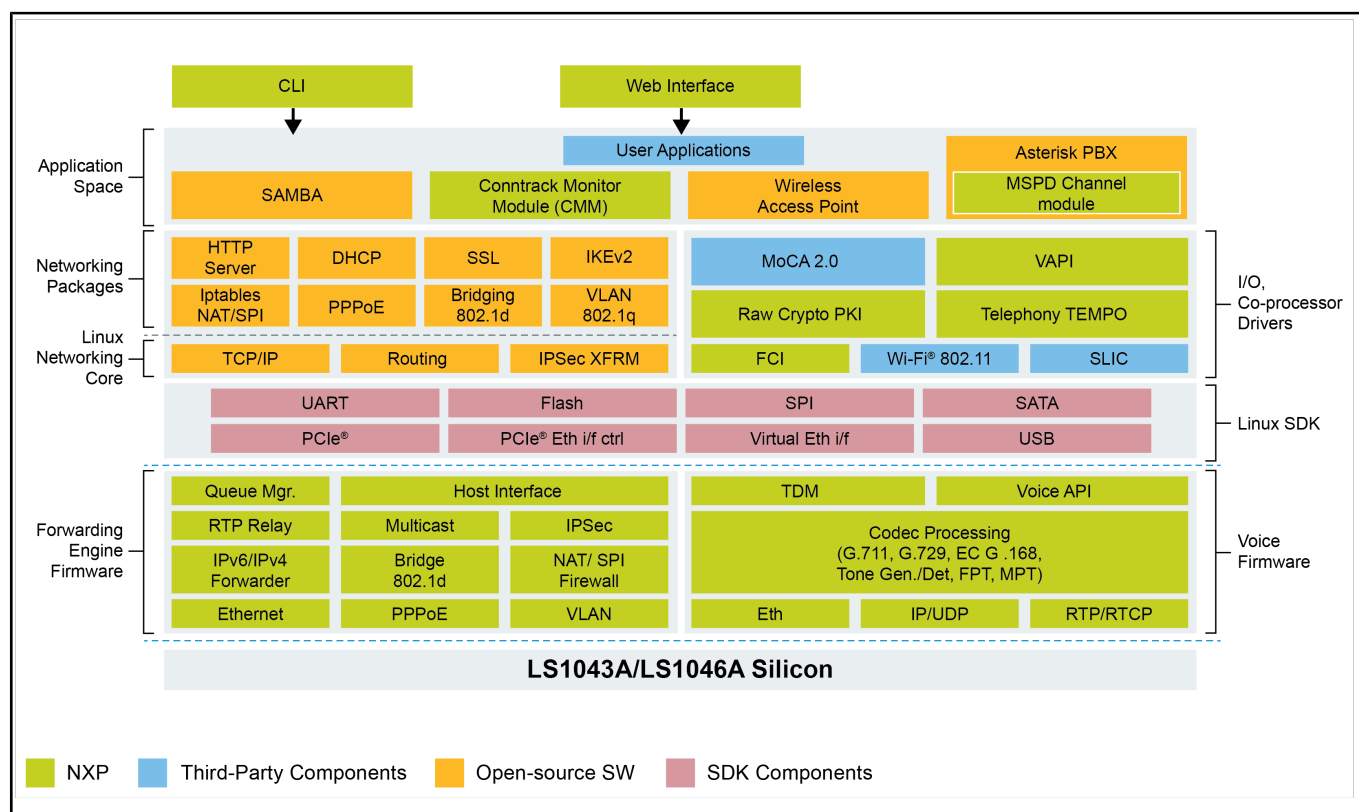
Last Updated: Dec 23, 2025

The NXP® ASK (Applications Solutions Kit) Software package for the LS1046A processor turns the LS1046A into a mostly autonomous ISO layer 3 packet processing system, offering many NO-CPU-NEEDED ethernet routing and switching fast paths so that the ARM A72 CPUs can be harnessed to make applications that provide differentiation and extra features for your customers.

Autonomous routing of routine traffic through the LS1046A at 20G allows the ARM A72 to focus on revenue producing extra tasks such as running a Voice over IP telephone or IPTV!

The NXP ASK SW Package makes a single chip routing/switching engine possible.

LS1046A Multicore Communications Processor Broadband Home Router ASK Block Diagram



View additional information for [Layerscape 1046A Processor Broadband Home Router Application Solutions Kit](#).

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.