



# QorIQ® LX2160A Reference Design Board (RDB)

The QorIQ LX2160A reference design board is a 1U form-factor tool for evaluation and design of value-added networking applications such as 5G packet processing, network-function virtualization (NFV) solutions, edge computing, white box switching, industrial applications, and storage controllers.

## OVERVIEW

The highest performance member of the Layerscape family, the LX2160A excels at running Linux-based networking applications. With the low power of FinFET process technology, 16 high-performance Arm® Cortex®-A72 cores, large caches, accelerators to 100Gbps, 100 Gigabit Ethernet, and PCIe Gen4, the Layerscape LX2160A SoC enables machine learning, cloud-like computing, and NFV at the network edge for greater application responsiveness.

The QorIQ LX2160A RDB provides a comprehensive platform that enables design and evaluation of the LX2160A and its most popular features. It can also be used to evaluate the other two LX2 family members (12-core LX2120A; and 8-core LX2080A). The LX2160A reference design is a 1U form factor and will conform to all requirements for sale worldwide, including certifications for FCC Part 15 Class A.

The QorIQ LX2160A RDB comes pre-loaded with NXP's board support package (BSP) based on a standard Linux® kernel. Some features enabled in the BSP include:

- ▶ Support for all IO, including 1GE, 10GE, 25GE, 40GE, 50GE, and 100GE; PCIe as both Endpoint and Root complex
- ▶ Yocto Project/Poky distributions

- ▶ DPDK APIs and example applications
- ▶ User space drivers for networking accelerator blocks and examples applications using them
- ▶ Virtualization: KVM, Dockers, virtio-net
- ▶ Uboot and UEFI bootloaders
- ▶ Standard GNU tool chain
- ▶ Available CodeWarrior tool chain

## LX2160A-RDB



