



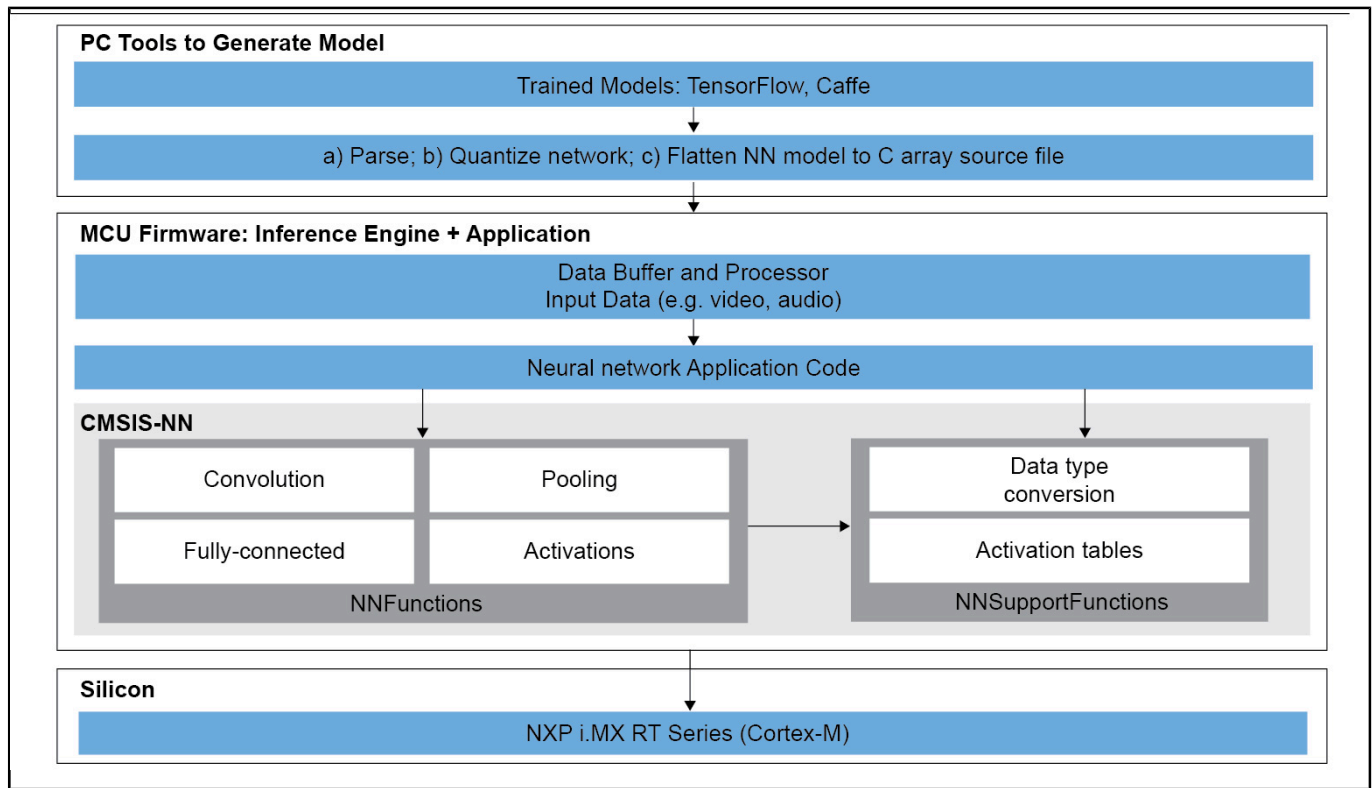
eIQ® for Arm® CMSIS-NN

eIQArmCMSISNN

Last Updated: Jan 19, 2023

Arm CMSIS-NN is a collection of efficient neural network kernels used to maximize the performance and minimize the memory footprint of neural networks on Arm® Cortex®-M processor cores. For easy deployment, NXP eIQ integrates CMSIS-NN directly into MCUXpresso SDK, along with all the other Arm CMSIS components. The use of CMSIS-NN requires more manual intervention than TensorFlow Lite, but yields faster performance and small memory footprint, at the expense of a limited set of neural network operators. Therefore, some models are not supported. Arm also provides a conversion script to parse the network topology and automatically determine the appropriate functions to be used.

eIQ for Arm® CMSIS-NN Block Diagram



View additional information for [eIQ® for Arm® CMSIS-NN](#).

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. © 2023 NXP B.V.