



elQ[®] Inference with TensorFlow[™] Lite

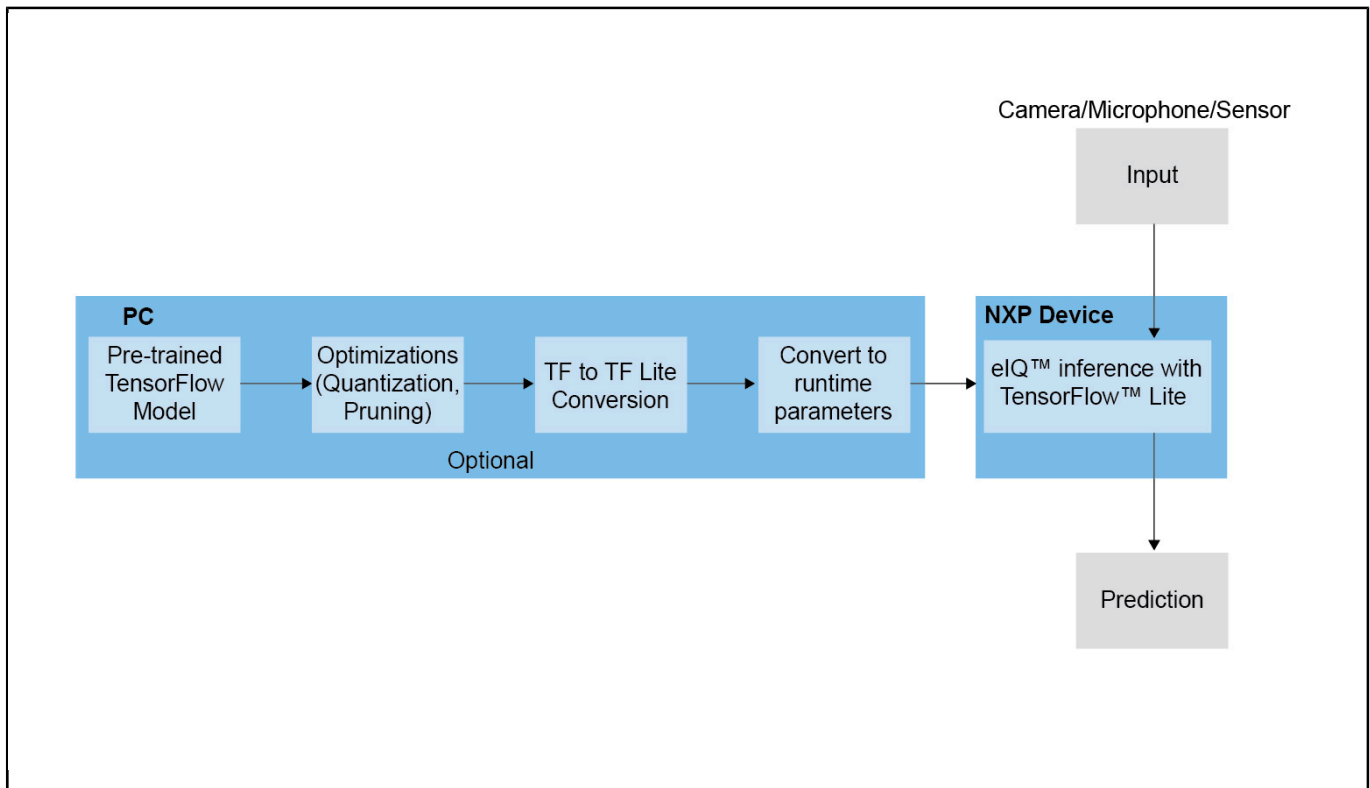
elQTensorFlowLite

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Integrated into NXP's Yocto development environment, elQ software delivers TensorFlow Lite for NXP's MPU platforms. Developed by Google to provide reduced implementations of TensorFlow (TF) models, TF Lite uses many techniques for achieving low latency such as pre-fused activations and quantized kernels that allow smaller and (potentially) faster models. Furthermore, like TensorFlow, TF Lite utilizes the Eigen library to accelerate matrix and vector arithmetic.

TF Lite defines a model file format, based on FlatBuffers. Unlike TF's protocol buffers, FlatBuffers have a smaller memory footprint allowing better use of cache lines, leading to faster execution on NXP devices. TF Lite supports a subset of TF neural network operations, and also supports recurrent neural networks (RNNs) and long short-term memory (LSTM) network architectures.

eIQ® TensorFlow Lite Block Diagram



View additional information for [eIQ® Inference with TensorFlow™ Lite](#).

Note: The information on this document is subject to change without notice.

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