



Ara-1: Discrete NPU for Optimized Edge-AI

ARA-1-DNPU

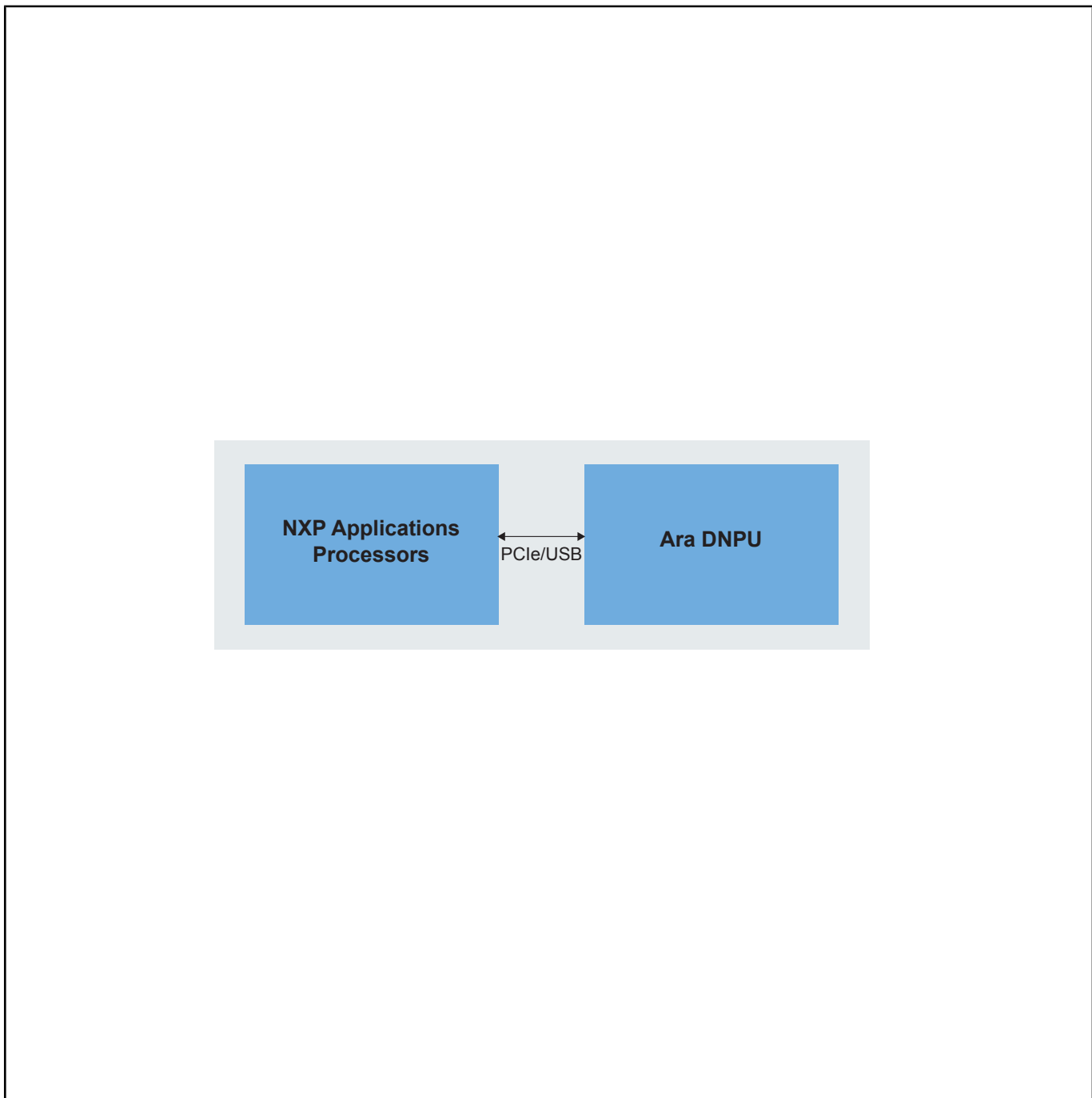
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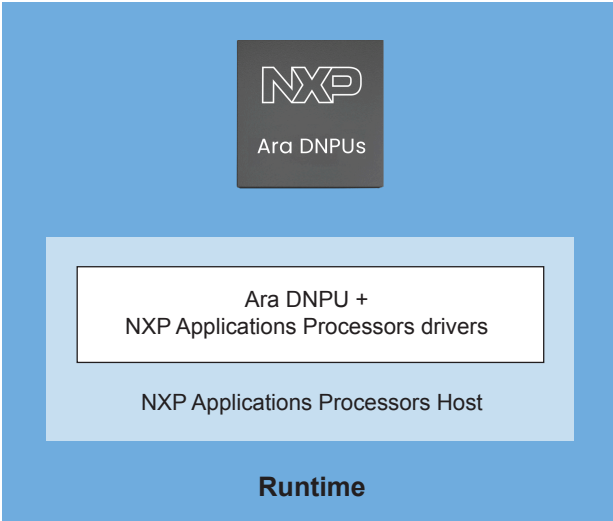
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Built around an efficient dataflow architecture, Ara-1 discrete neural processing units (DNPUs) deliver the performance and responsiveness needed for real-time AI computing and decision-making. The Ara-1 enables applications to run multiple AI models with zero-latency context-switching. It supports AI-integrated cameras and embedded systems that demand low-latency operation and greater flexibility to accommodate new model operators.

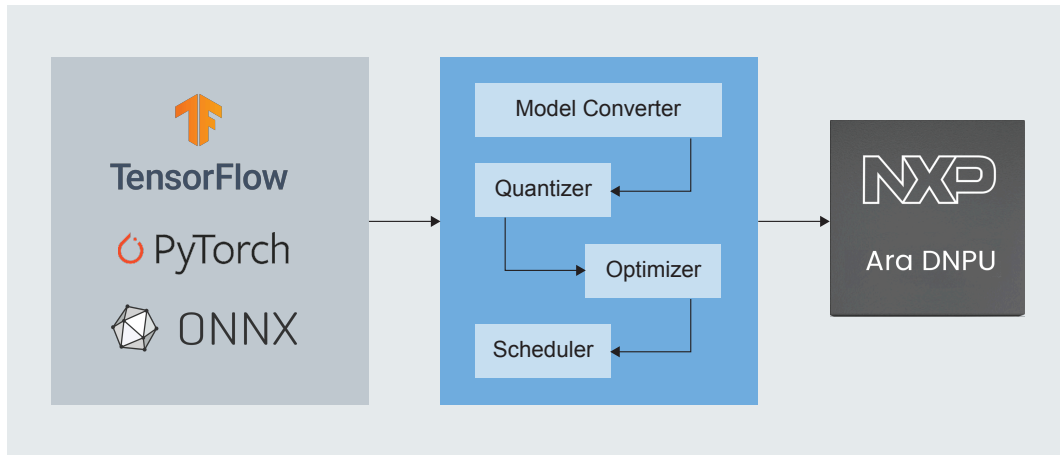
NXP Applications Processor and Ara DNPV Connection Block Diagram



Integration of Ara DNPV and Applications Processors Host with Drivers Block Diagram



Machine learning deployment flow Block Diagram



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