



Ara-2 USB Module: eTOPS for Gen AI Workloads

ARA-2-USB-MODULE

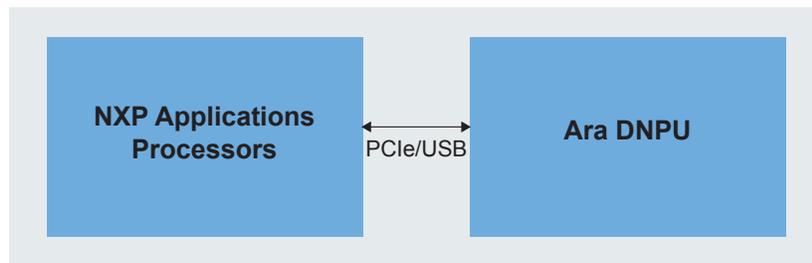
Preproduction

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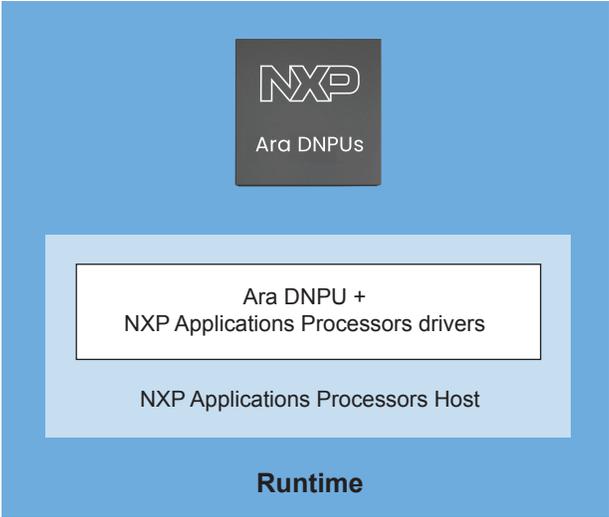
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The [Ara-2](#) USB module delivers up to 40 equivalent tera operations per second (eTOPS) for high-performance, power-efficient AI inference. It supports real-time AI workloads, including generative AI, large language models (LLMs) and vision language models (VLMs), enabling compute and embedded systems to run multiple models simultaneously without performance penalties. The module can process visual and textual content, offering enhanced productivity and capabilities for edge-AI deployments.

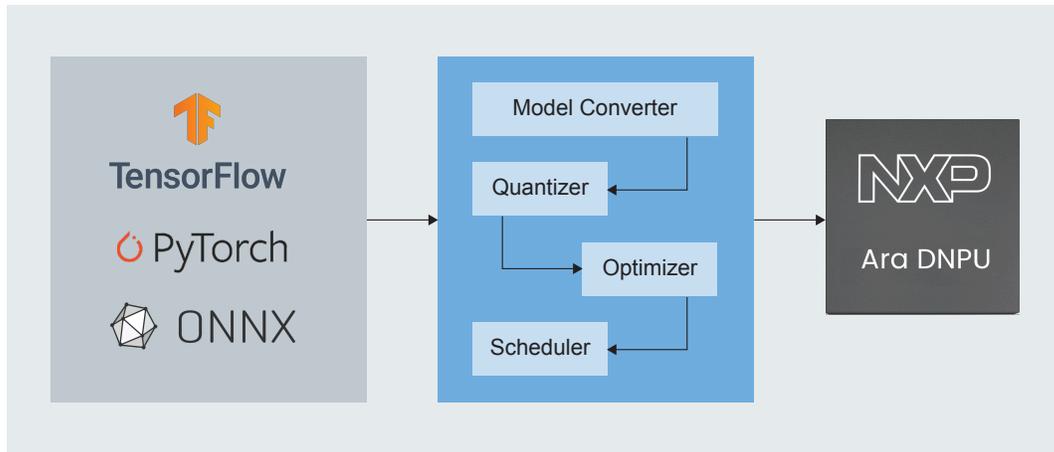
NXP Applications Processor and Ara DNPV Connection Block Diagram



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



Machine learning deployment flow Block Diagram



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