



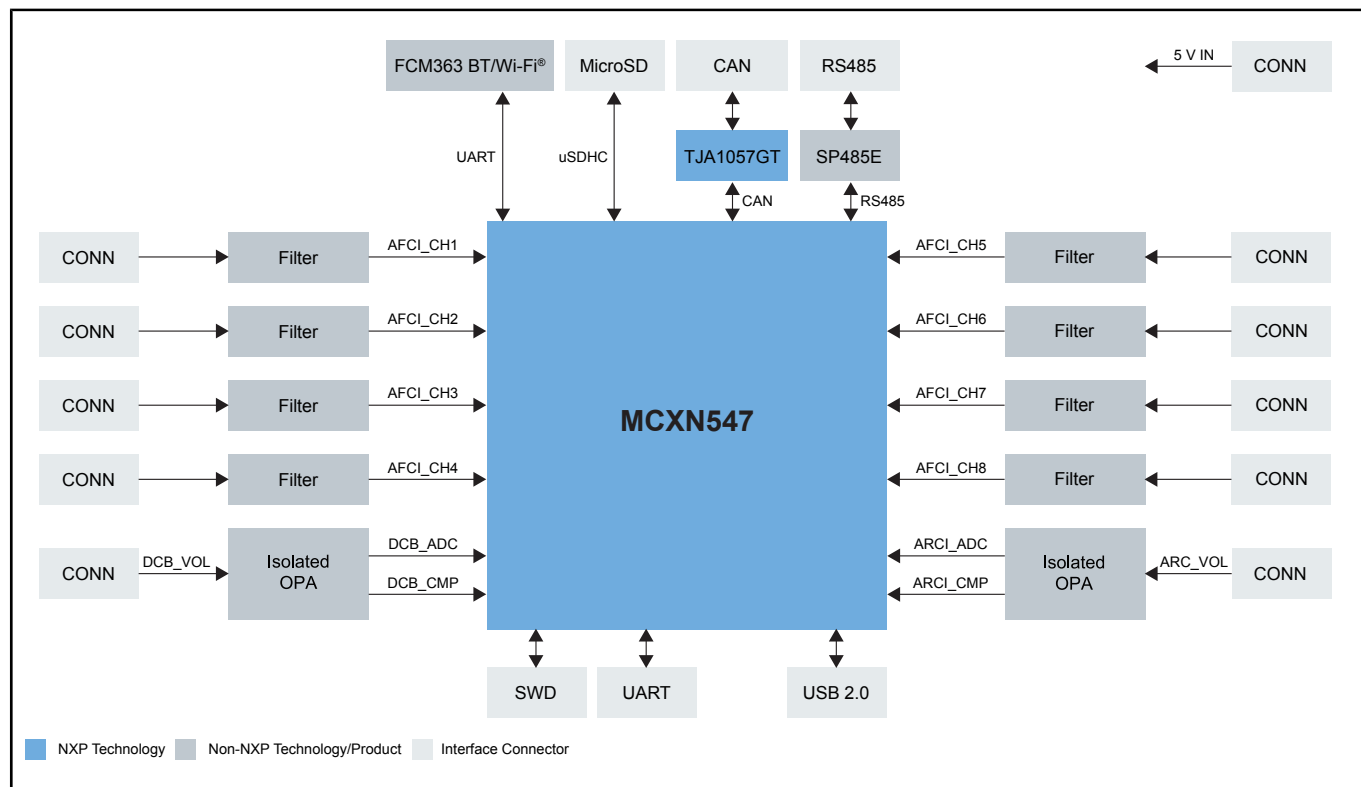
AI-Accelerated DC Arc Fault Circuit Interrupter Reference Design

DC-AFCI-MCXN547

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The DC-AFCI-MCXN547 reference design helps engineers develop AI-accelerated DC arc fault circuit interrupter solutions for solar PV inverters and DC energy systems. Built around the MCXN547 MCU, it combines multi-channel sensing, PowerQuad FFT acceleration, on-chip NPU inference and eIQ Time Series Studio workflow to speed data collection, model training, validation and deployment.

AI-Accelerated DC AFCI Reference Design Block Diagram



View additional information for [AI-Accelerated DC Arc Fault Circuit Interrupter Reference Design](#).

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

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