



# Application Software Pack: Dynamic Voltage Scaling Using PVT Sensor

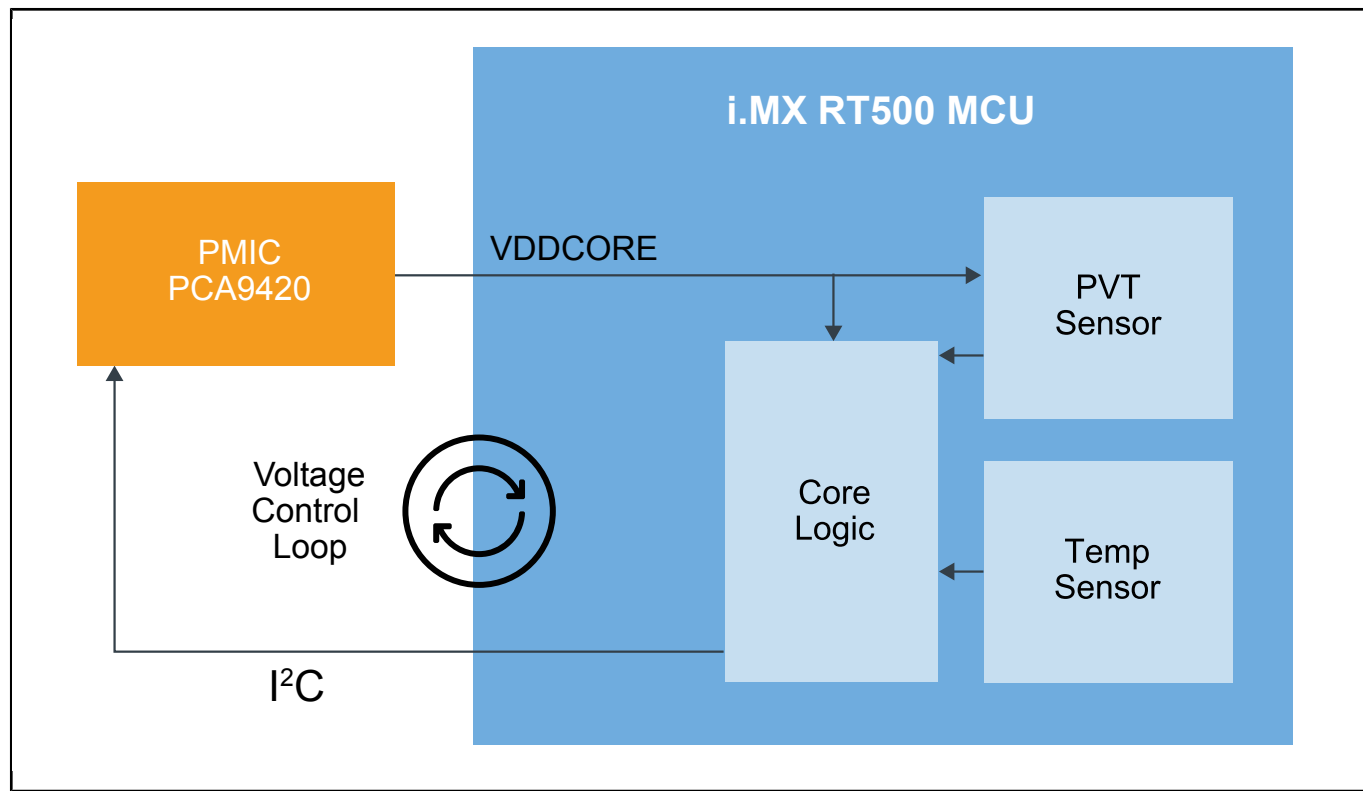
## APP-SW-PACK-DVS-PVT-SENSOR

Last Updated: Dec 24, 2025

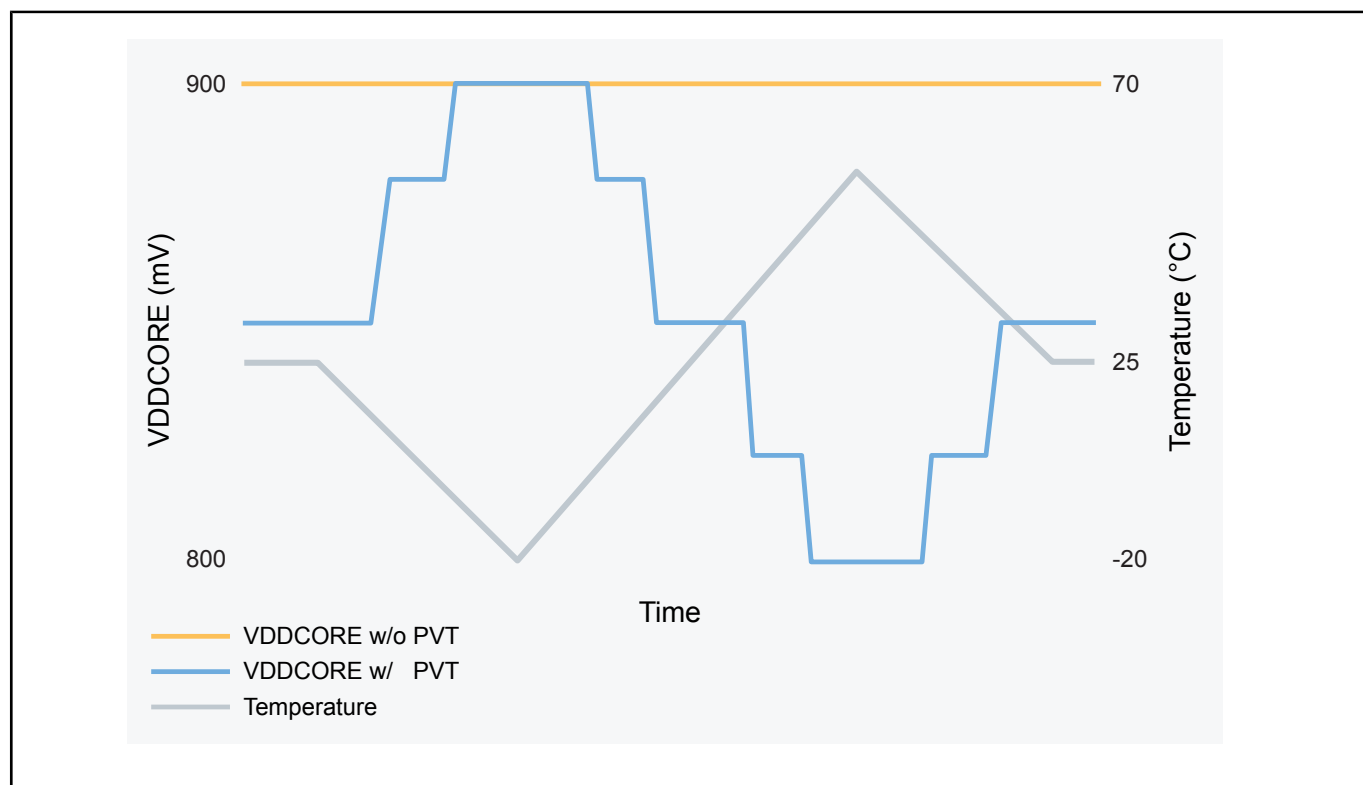
This power management application software pack, dynamic voltage scaling (DVS) using process, voltage and temperature (PVT) sensor, enables embedded developers to optimize the active power for battery-powered applications. This example software package is designed to show how to use the PVT sensor in the i.MX RT500 family of Crossover MCUs and provides details on how to test and measure the power savings achieved by this method to control DVS.

[Download this Application Software Pack](#) and follow the steps found in the [DVS Using PVT Sensor Lab Guide](#)

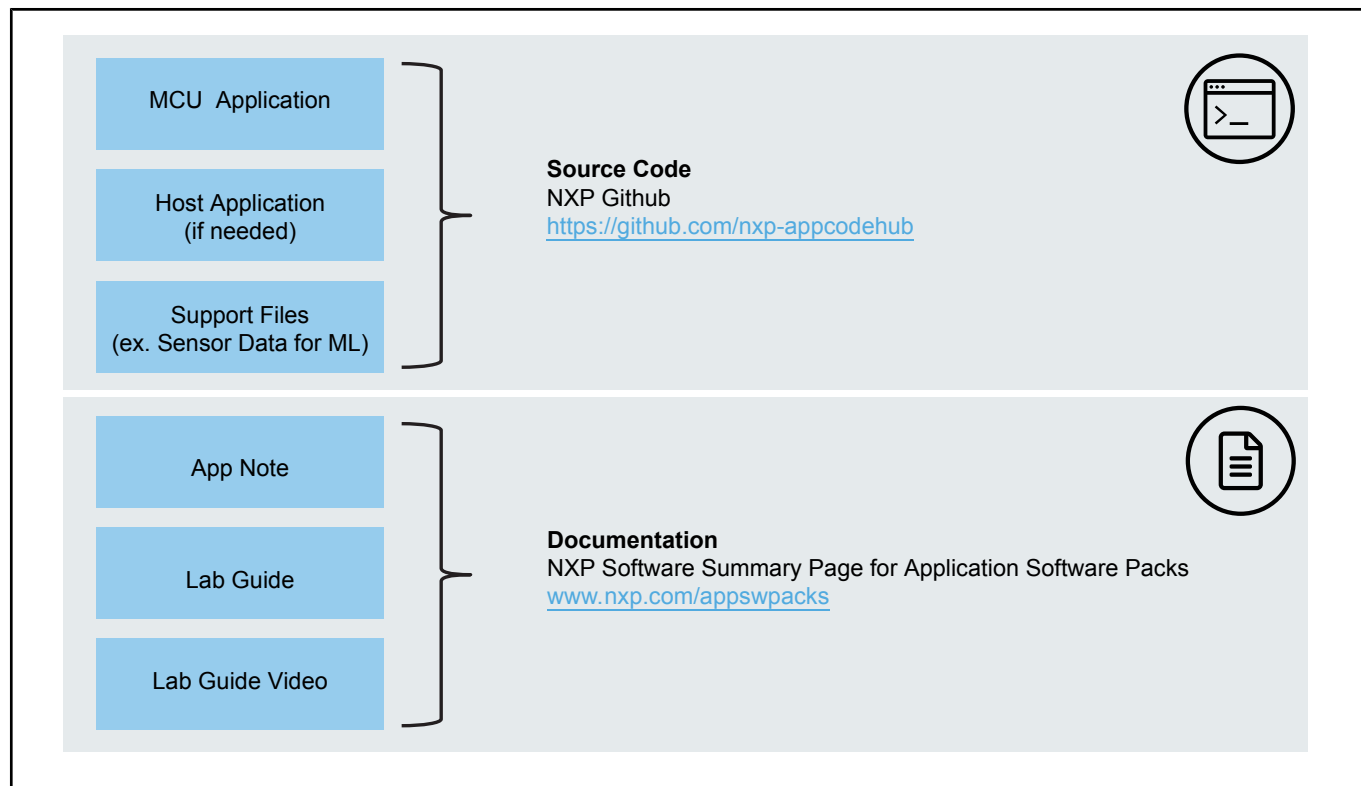
## i.MX-RT500 PVT Sensor Block Diagram



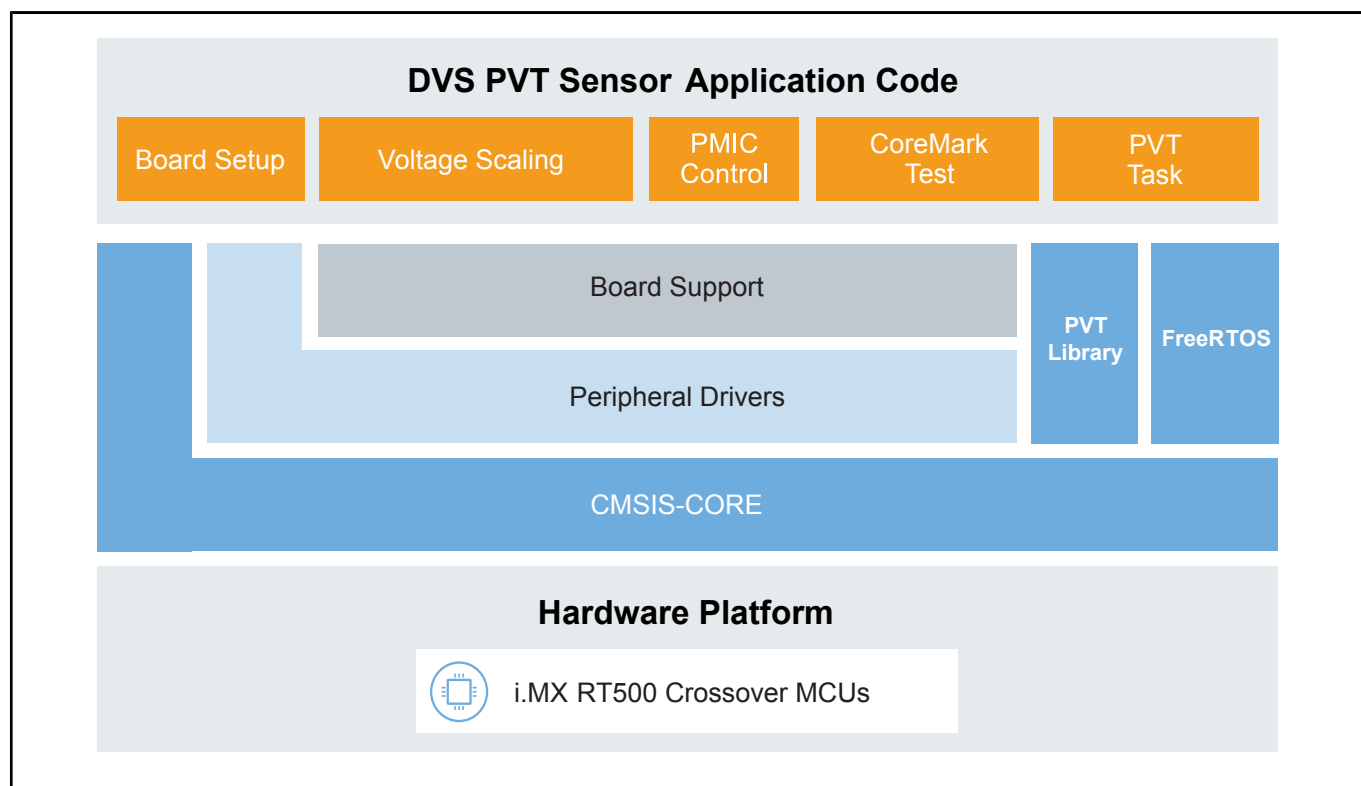
## Temperature Graph Block Diagram



## Application Software Pack Collateral Block Diagram Block Diagram



## DVS PVT Sensor Application Code Block Diagram Block Diagram



View additional information for [Application Software Pack: Dynamic Voltage Scaling Using PVT Sensor](#).

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

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