Touch-Sensing Software

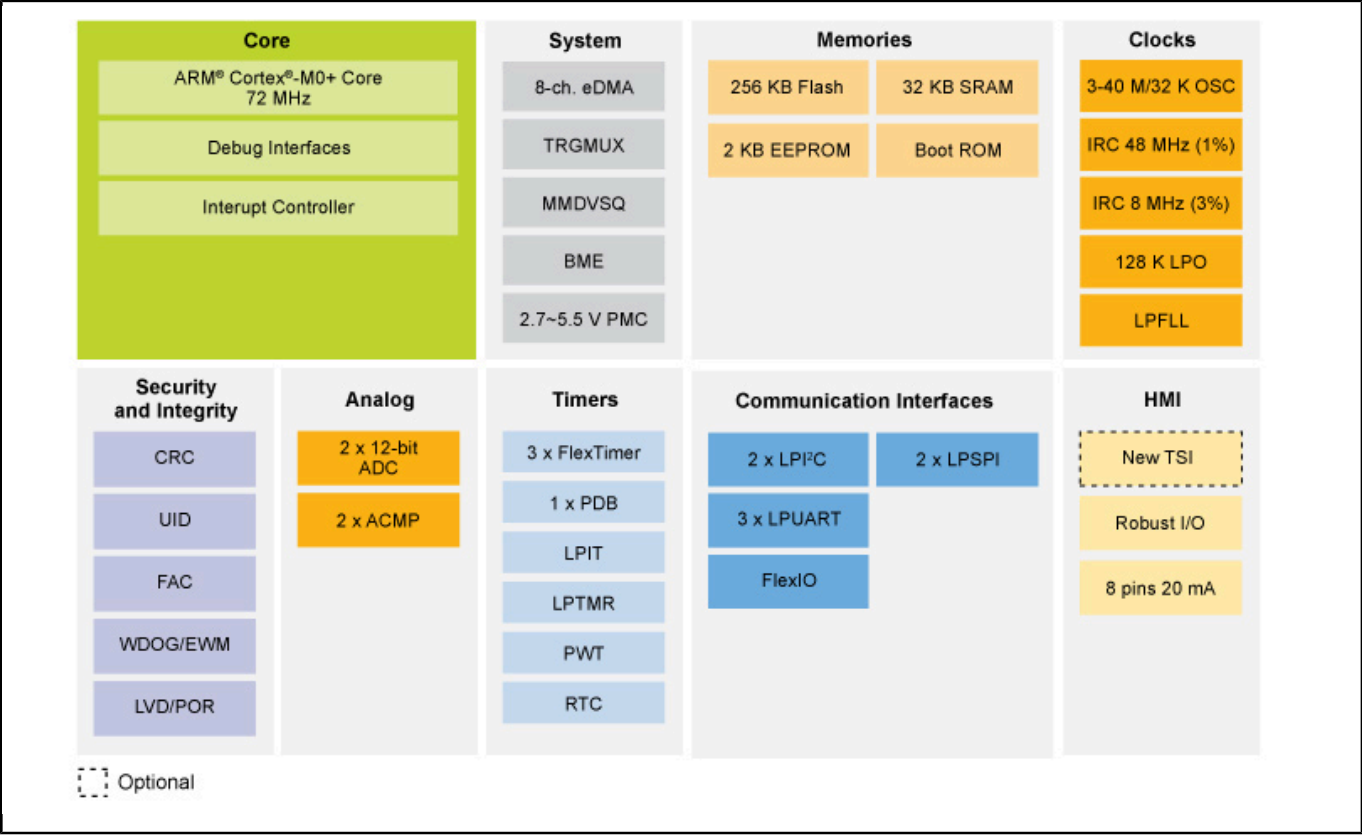## TSS

Last Updated: Dec 24, 2025
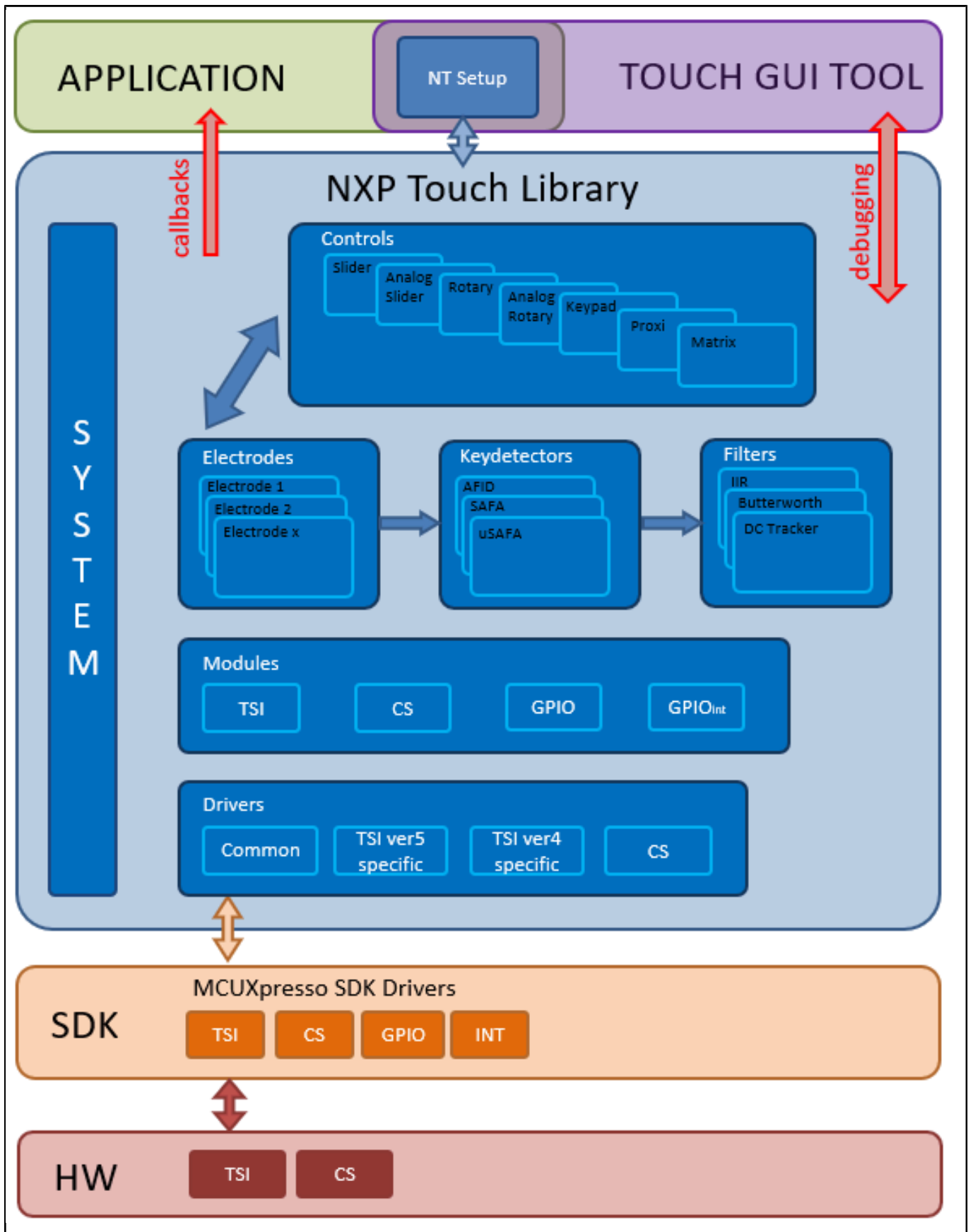
NOTE: This software is no longer recommended for new designs. Please refer to the new NXP Touch Software for the latest software products designed specifically for applications utilizing touch sensing.

NXP® Touch software is designed to speed development of your touch applications and is ideal for use with Kinetis® MCUs. Available as a source code, this software download features touch detection algorithms and is ideally suited for RTOS based applications. NXP Touch software employs a modular architecture with a variety of touch centric controls, modules, and electrode data objects, enabling integrated and customizable features.

Robust MCU with 256KB Flash and TSI Block Diagram

Core
ARM® Cortex®-M0+ Core 72 MHz

Debug Interfaces

Interupt Controller

System
8-ch. eDMA

TRGMUX

MMDVSQ

BME

2.7~5.5 V PMC

Memories
256 KB Flash

32 KB SRAM

2 KB EEPROM

Boot ROM

Clocks
3-40 M/32 K OSC

IRC 48 MHz (1%)

IRC 8 MHz (3%)

128 K LPO

LPFLL

Security and Integrity
CRC

UID

FAC

WDOG/EWM

LVD/POR

Analog
2 x 12-bit ADC

2 x ACMP

Timers
3 x FlexTimer

1 x PDB

LPIT

LPTMR

PWT

RTC

Communication Interfaces
2 x LPI²C

2 x LPSPI

3 x LPUART

FlexIO

HMI
New TSI

Robust I/O

8 pins 20 mA

Optional

Touch Software Block Diagram Block Diagram

View additional information for Touch-Sensing Software.