# FRDM Automotive S32K344 Development Board for General Purpose

## FRDM-A-S32K344 NEW

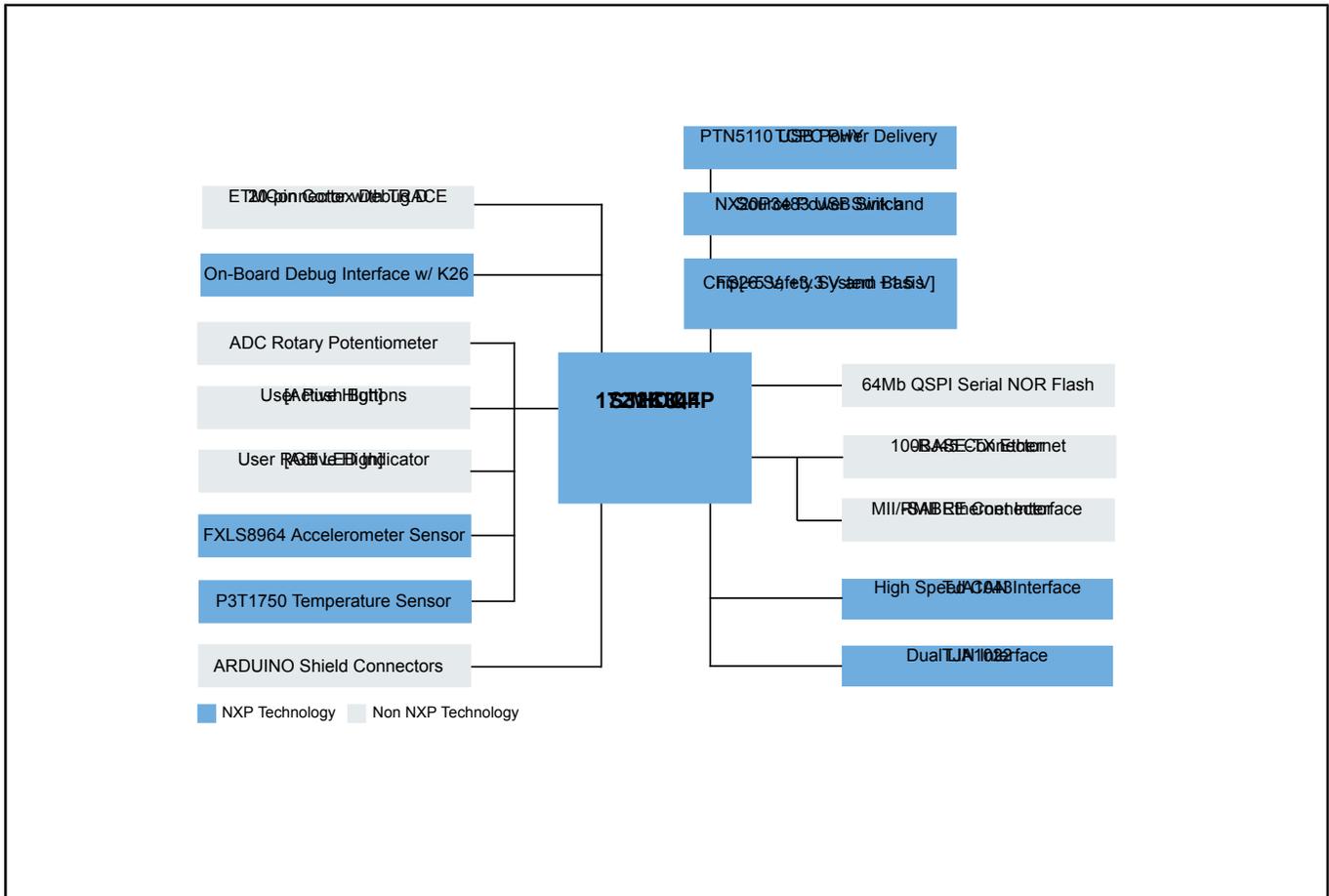**Active**

Last Updated: Mar 12, 2026

S32K344MINI#EVB Renamed to FRDM#A#S32K344: Now, part of the FRDM Automotive Ecosystem under its new name, the board keeps the same hardware and adds full ecosystem compatibility for flexible, scalable development.

The FRDM Automotive S32K344 is a development board for general-purpose industrial and automotive applications.

Based on the 32-bit Arm® Cortex®-M7 S32K3 microcontroller unit (MCU) in a 172 High Density Quad Flat Package (HDQFP), the FRDM Automotive S32K344 offers two cores in lockstep mode, Hardware Security Engine (HSE), advanced connectivity and low-power.

The FRDM Automotive S32K344 offers a standard-based form factor compatible with the Arduino® UNO pin layout, providing a broad range of expansion board options for quick application prototyping and demonstration.

# FRDM Automotive S32K344 Development Board Block Diagram



Block diagram elements:

- ET20-pin Cortex Debug/TRACE
- On-Board Debug Interface w/ K26
- ADC Rotary Potentiometer
- User Push Buttons
- User RGB LED Indicator
- FXLS8964 Accelerometer Sensor
- P3T1750 Temperature Sensor
- ARDUINO Shield Connectors

- PTN5110 USB Power Delivery
- NXP Power Switch and
- FS26 Safety System Basis [3.3V]

- S32K344P
- 64Mb QSPI Serial NOR Flash
- 100BASE-TX Ethernet
- MII/RMII RGMII Ethernet Interface
- High Speed CAN Interface
- Dual TJA1102 Interface

Legend:
- NXP Technology
- Non NXP Technology

View additional information for FRDM Automotive S32K344 Development Board for General Purpose.

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