(//www.nxp.com)

PRODUCTS

APPLICATIONS

DESIGN

CENTER

SUPPORT

COMPANY

Sign In / Register (https://www.nxp.com/security/login?TARGET=https%3A%2F%2Fwww.nxp.com%2Fdesign%2Fdevelopment-boards%2Fautomotive-development-platforms
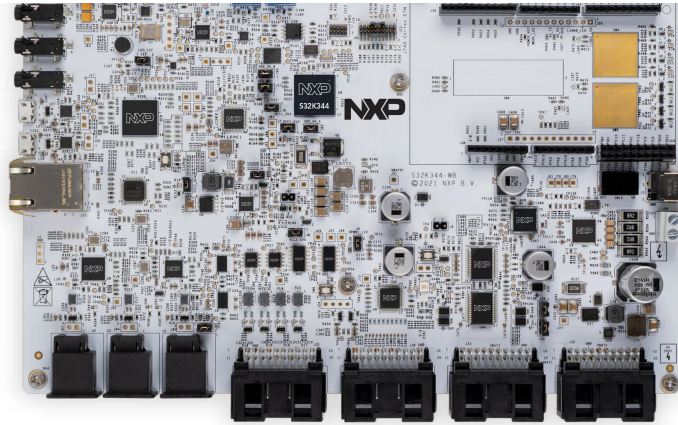
S32K344-WB: Evaluation Board for Automotive General Purpose

S32K344-WB **NEW** Receive alerts ⓘ

Overview | Product Details | Documentation | Design Resources ⓘ | Training | Support | **BUY OPTIONS** | **GET STARTED (/DOCUMENT/GUIDE/GETTIN**

Roll over image to zoom in

(/assets/ima board-imag) (/assets/ima board-imag) (/assets/ima board-imag) (/assets/ima board-imag)

The S32K344-WB is an evaluation and development board for general-purpose automotive and industrial applications.

Based on the 32-bit Arm® Cortex®-M7 S32K344 (/products/processors-and-microcontrollers/s32-automotive-platform/s32k-auto-general-purpose-mcus/s32k3-microcontrollers-for-automotive-general-purpose:S32K3) offers dual cores configured in lockstep mode in a BGA 257 package. S32K344-WB supports a wide range of ASIL D safety hardware and peripherals, including the FS26 (/products/power-management/pmics-and-sbcs/safety-sbcs/safety-system-basis-chip-with-low-power-fit-for-asil-d:FS26) safety system basis chip, SJA1105 (1463761226464704592858:P) Ethernet switch and 100BASE-T1 for AVB demo and message routing. The NCK2910 RF receiver and NJJ29C2 (/products/security-and-authentication/secure-car-access/low-frequency-driver-and-receiver-ic-for-passive-keyless-entry-applications:NJJ29C0BHN) LF driver are intended to use for the development of passive entry passive start (PEPS) keyless applications.

Due to its high component integration, a number of CAN and LIN interfaces, power switches, and audio interface, the S32K344-WB is an excellent choice for the development of zonal aggregator and domain control type of applications.

More ⌄

DESIGN FILES   SOFTWARE
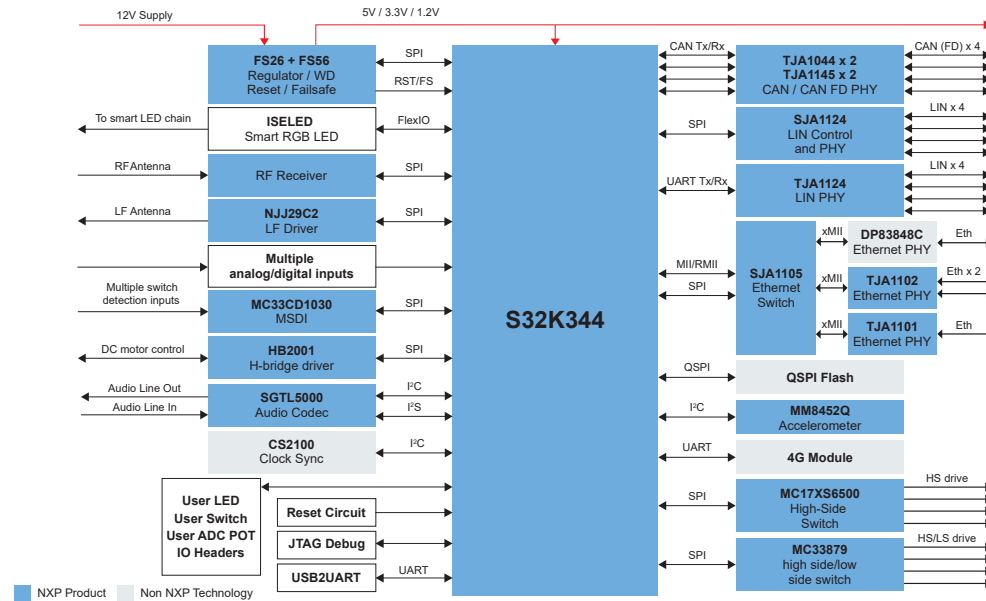
Product Details

Select a section:

Block Diagram | Supported Devices | Features | Applications

Block Diagram

S32K344-WB Evaluation Board

GET DIAGRAM PDF (/ASSETS/BLOCK-DIAGRAM/EN/S32K344-WB.PDF)

Supported Devices

Power Management

BLDC, H-Bridge, Stepper

- **HB2001** (/products/power-management/motor-and-solenoid-drivers/bldc-h-bridge-stepper/spi-programmable-10-a-h-bridge-brushed-dc-motor-driver:HB2001)**:** SPI Programmable 10 A H-Bridge Brushed DC Motor Driver

High Side Switches

- **MC12XS6** (/products/power-management/smart-switches-and-drivers/high-side-switches/external-automotive-lighting-multi-channel-extreme-switch:MC12XS6)**:** External Automotive Lighting Multi-Channel eXtreme Switch

Configurable Switches

- **MC33879** (/products/power-management/smart-switches-and-drivers/configurable-switches/configurable-octal-serial-switch:MC33879)**:** Configurable Octal Serial Switch

Safety SBCs

- **FS26** (/products/power-management/pmics-and-sbcs/safety-sbcs/safety-system-basis-chip-with-low-power-fit-for-asil-d:FS26)**:** Safety System Basis Chip with Low Power Fit for ASIL D
- **FS5600** (/products/power-management/pmics-and-sbcs/safety-sbcs/automotive-dual-buck-regulator-and-controller-with-voltage-monitors-and-watchdog-timer:FS5600)**:** Automotive Dual Buck Regulator and Controller with Voltage Monitors and Watchdog Timer

Interfaces

Single and Multi-Channel LIN Transceivers

- **TJA1124** (/products/interfaces/automotive-lin-solutions/quad-lin-commander-transceiver-for-in-vehicle-subnetworks:TJA1124)**:** Quad LIN Commander Transceiver for In-Vehicle Subnetworks
- **SJA1124** (/products/interfaces/automotive-lin-solutions/quad-lin-commander-transceiver-with-lin-commander-controller:SJA1124)**:** Quad LIN Commander Transceiver with LIN Commander Controller

Automotive Ethernet Switches

- **SJA1105PQRS** (/products/interfaces/ethernet-/automotive-ethernet-switches/sja1105pel-qel-rel-sel-series-ethernet-switches:SJA1105PQRS)**:** SJA1105PEL/QEL/REL/SEL Series Ethernet Switches

More ⌄

Features

Hardware Features

- Power supply switch
- 2x user push-buttons

- 2x ADC rotary potentiometer

- 2x touchpad electrode + 1x slider

- 10-pin and 20-pin JTAG connector for S32K3 debug interface

Software Features	- Complimentary S32 Design Studio IDE (/design/software/development-software/s32-design-studio-ide:S32-DESIGN-STUDIO-IDE) (Eclipse, GCC and debugger)
	- Complimentary Real-Time Drivers (/design/software/automotive-software-and-tools/real-time-drivers-rtd:AUTOMOTIVE-RTD) (RTD) for AUTOSAR® and non-AUTOSAR use and ASIL D compliant
	- Configuration tools for both AUTOSAR and non-AUTOSAR users
	- Complimentary HSE security firmware (https://www.nxp.com/webapp/swlicensing/sso/downloadSoftware.sp?catid=SW32K3-STDSW-D): NXP's SHE+ designed for ISO 21434
	- S32 Safety Software Framework (SAF) (/design/software/automotive-software-and-tools/s32-safety-software/s32-safety-software-framework-saf-and-safety-peripheral-drivers-spd:SAF)
	- Complimentary Safety Peripheral Drivers (SPD) (/design/software/automotive-software-and-tools/s32-safety-software/s32-safety-software-framework-saf-and-safety-peripheral-drivers-spd:SAF)
	- Structural core self-test (SCST) (/docs/en/product-brief/S32K3xx-SCST-PB.pdf)
	- Complimentary Inter-Platform Communication Framework (IPCF) (/design/software/automotive-software-and-tools/inter-platform-communication-framework-ipcf:IPCF): middleware for multi-core, multi-OS communication in single-and multi-chip systems
	- Complimentary Model-Based Design Toolbox for MATLAB® (/design/software/automotive-software-and-tools/model-based-design-toolbox-mbdt:MBDT): NXP supplied plug-in for Simulink®environment
Compatibility	- Arduino UNO pint-out compatible with expansion "shield" support
Interfaces	- 4x CAN interfaces

More ˅

Applications

Automotive

Automotive Zone Controller (/applications/automotive/software-defined-vehicle-infrastructure/automotive-zone-controller-:AUTOMOTIVE-ZONE-CONTROLLER)

Domain Controller (/applications/automotive/software-defined-vehicle-infrastructure/domain-controller:DOMAIN-CONTROL)

Gateway (/applications/automotive/software-defined-vehicle-infrastructure/gateway:GATEWAY)