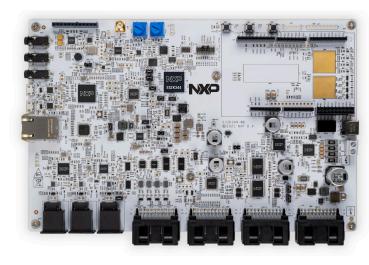
Product Documentation Design Documentation Training Support BUY OPTIONS GET STARTED (/DOCUMENT/GUIDE/GETTING-STARTED-WITH-THE-S32K34 Home (/) /Detailsh ... / Develop... / Develop... / Resources Training Support BUY OPTIONS GET STARTED (/DOCUMENT/GUIDE/GETTING-STARTED-WITH-THE-S32K34 / Automotive Development Platforms (/design/design-center/development-boards-and-designs/automotive-development-platforms:DEVKIT-AUTO-IND)

S32K MCU Platforms (/design/design-center/development-boards-and-designs/automotive-development-platforms/s32k-mcu-platforms:MCUS-32-BITS-PLATFORMS) / S32K344-WB Evaluation Board for Automotive General Purpose

# S32K344-WB Evaluation Board for Automotive General Purpose

S32K344-WB Receive alerts (1)



Roll over image to zoom in

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Overview	Product Details	Documentation	Resources	Training	Support B	BUY OPTIONS	GET STARTED (/DOCUMENT/GUIDE/GETTING-STARTED-WITH-THE-S32K34
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The S32K344-WB is an evaluation board for general-purpose automotive and industrial applications.

Based on the 32-bit Arm<sup>®</sup>, Cortex<sup>®</sup>-M7 S32K344 (/products/processors-and-microcontrollers/s32-automotive-platform/s32k-auto-general-purposemcus/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/systembasis-chips/safety-system-basis-chip-with-low-power-for-asil-d-systems:FS26) safety system basis chip, SJA1105 (/products/interfaces/ethernet-/automotive-ethernet-switches/sja1105pel-qel-rel-sel-series-ethernet-switches:SJA1105PQRS) Ethernet switch and 100BASE-T1 for AVB demo and message routing. The NCK2910 RF receiver and NJJ29C2 (/products/security-and-authentication/secure-caraccess/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.

Less ^

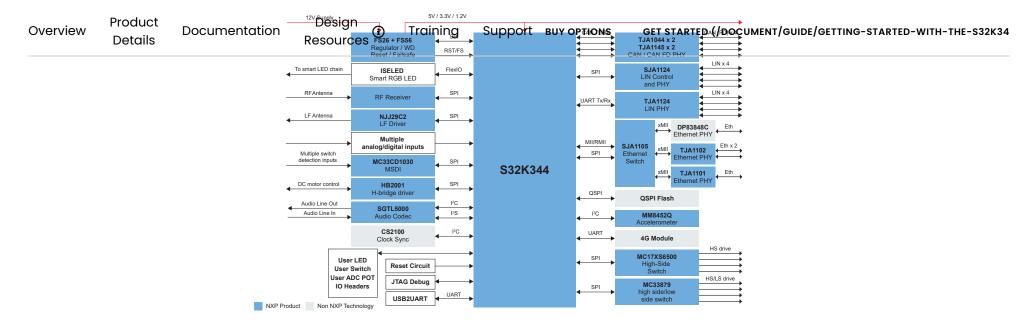
DESIGN FILES SOFTWARE

### **Product Details**

Block Diagram Supported Devices Features Applications

#### **Block Diagram**

#### S32K344-WB Evaluation Board



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#### **Supported Devices**

#### **Power Management**

BLDC, H-Bridge, Stepper

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

High Side Switches			<ul> <li>MC12XS6 (/products/power-management/smart-switches-and-drivers/high-side- switches/external-automotive-lighting-multi-channel-extreme-switch:MC12XS6): External Automotive</li> </ul>					
verview	Product Details	Documentation	Desighighting Multi-Channel eXtreme Switch Resources Training Support BUY OPTIONS GET STARTED (/DOCUMENT/GUIDE/GETTING-STARTED-WITH-THE-S32K3					
Configurable Switches		hes	<ul> <li>MC33879 (/products/power-management/smart-switches-and-drivers/configurable- switches/configurable-octal-serial-switch:MC33879): Configurable Octal Serial Switch</li> </ul>					
System	Basis Chips	3	<ul> <li>FS26 (/products/power-management/pmics-and-sbcs/system-basis-chips/safety-system-basis- chip-with-low-power-for-asil-d-systems:FS26): Safety System Basis Chip with Low Power, for ASIL D Systems</li> </ul>					
			<ul> <li>FS5600 (/products/power-management/pmics-and-sbcs/system-basis-chips/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</li> </ul>					
Interfaces								
More ∽								
Features	5							
Hardware Features			Power supply switch					
			2x user push-buttons					
(//www.nx	p.com)	S32K344-WB E	<ul> <li>2x ADC rotary potentiometer</li> <li>2x aluation Board for Automotive General Purpose</li> <li>2x touchpad electrode + 1x slider</li> </ul>					
			<ul> <li>10-pin and 20-pin JTAG connector for S32K3 debug interface</li> </ul>					
Software Features			<ul> <li>Complimentary S32 Design Studio IDE (/design/design-center/software/development-software/s32- design-studio-ide:S32-DESIGN-STUDIO-IDE) (Eclipse, GCC and debugger)</li> </ul>					
			<ul> <li>Complimentary Real-Time Drivers (/design/design-center/software/automotive-software-and- tools/real-time-drivers-rtd:AUTOMOTIVE-RTD) (RTD) for AUTOSAR<sup>®</sup> and non-AUTOSAR use and ASIL D</li> </ul>					

• Configuration tools for both AUTOSAR and non-AUTOSAR users

Overview	Product Details	Documentation	<ul> <li>Complimentary HSE security firmware (/webapp/swlicensing/sso/downloadSoftware.sp? Design Catid SW3DKBhBDSWSD)</li> <li>SWSD)</li> <li>SWSD)</li> <li>SWEPPIDESIGNED for BORDED FOR STATED-WITH-THE-S32K34</li> <li>S32 Safety Software Framework (SAF) (/design/design-center/software/functional-safety- software/s32-safety-software-framework-saf-and-safety-peripheral-drivers-spd:SAF)</li> </ul>
			<ul> <li>Complimentary Safety Peripheral Drivers (SPD) (/design/design-center/software/functional-safety- software/s32-safety-software-framework-saf-and-safety-peripheral-drivers-spd:SAF)</li> </ul>
			<ul> <li>Structural Core Self-Test (SCST) (/docs/en/product-brief/S32K3xx-SCST-PB.pdf)</li> </ul>
			<ul> <li>Complimentary Inter-Platform Communication Framework (IPCF) (/design/design- center/software/automotive-software-and-tools/inter-platform-communication-framework- ipcf:IPCF): middleware for multi-core, multi-OS communication in single-and multi-chip systems</li> </ul>
			<ul> <li>Complimentary Model-Based Design Toolbox for MATLAB<sup>®</sup> (/design/design- center/software/automotive-software-and-tools/model-based-design-toolbox-mbdt:MBDT): NXP</li> </ul>

#### Applications

#### Automotive

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

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

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

Service-Oriented Gateway (/applications/automotive/connected-vehicle/service-oriented-gateway:SERVICE-ORIENTED-GATEWAY)

Smart Car Access (/applications/automotive/connected-vehicle/smart-car-access:SMART-CAR-ACCESS)

## **Buy Options**