



S32K312EVB-Q172通用开发板

S32K312EVB-Q172

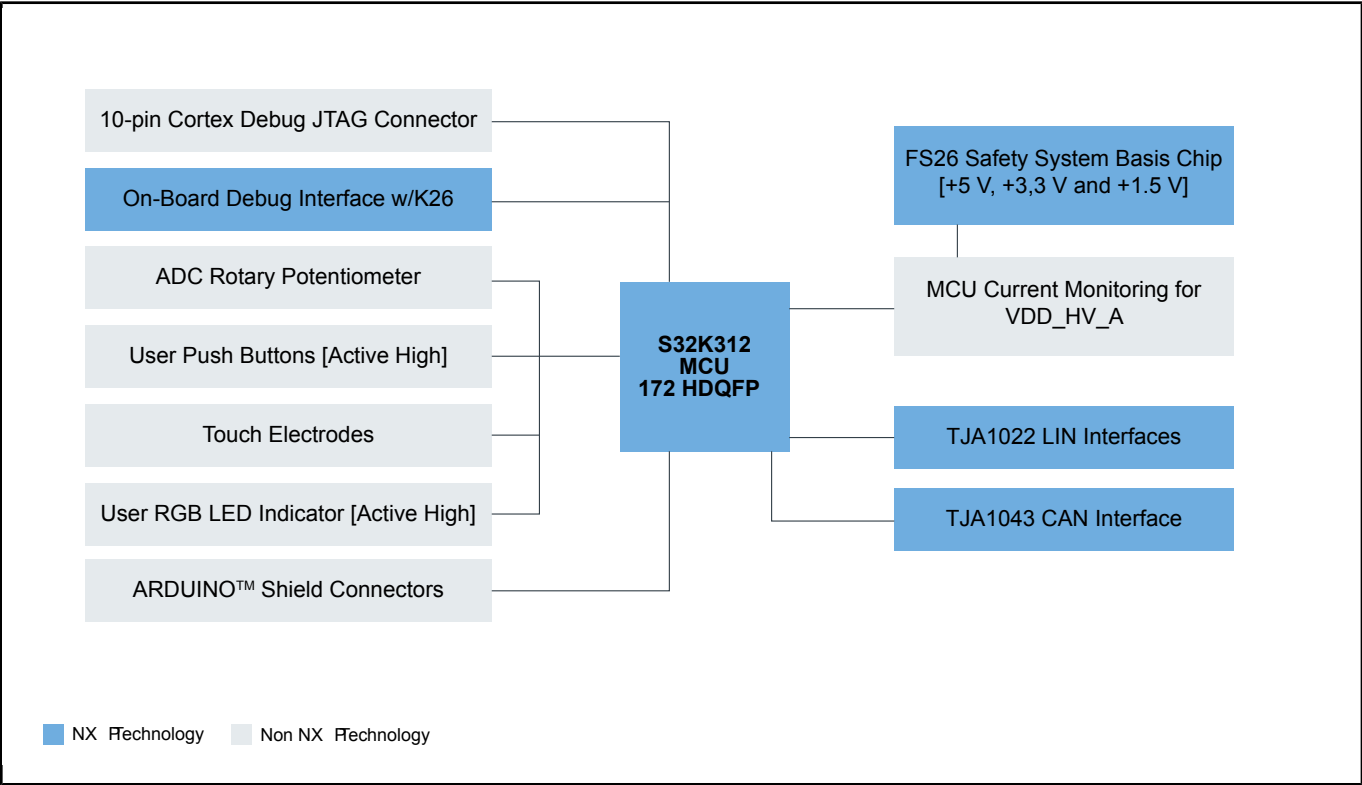
Last Updated: Sep 7, 2022

S32K312EVB-Q172是工业和汽车应用通用评估/开发板。

S32K312EVB-Q172基于采用172 MaxQFP封装的32位Arm®Cortex®-M7 S32K3 MCU，提供单核模式、HSE安全引擎、OTA支持、高级连接和低功耗模式。

S32K312EVB-Q172提供与Arduino® UNO引脚布局兼容的标准规格，为快速应用原型设计和演示提供了广泛的扩展板选项。

S32K312EVB-Q172结构框图 Block Diagram



S32K3系列结构框图 Block Diagram

K311	K312	K314	Common Features	K322	K324	K341	K342	K344	K328	K338	K348	K358				
1 x Arm® Cortex®-M7 @120 MHz			1x Cortex-M7 @160 MHz	AEC-Q100, 125 °C, 3.3/5 V			2 x Cortex-M7 @160 MHz			1 Lockstep Cortex-M7 @ 160 MHz			2 x Cortex-M7 @ 160 MHz	3 x Cortex-M7 @ 240 MHz	1 LS Cortex-M7 @ 160 MHz	1 LS Cortex-M7 + 1 Cortex-M7 @ 240 MHz
1 MB Flash	2 MB Flash	4 MB Flash	HSE-B Crypto Security Engine	2 MB Flash	4 MB Flash	1 MB Flash	2 MB Flash	4 MB Flash	8 MB Flash							
128 k SRAM	192 k SRAM	512 k SRAM	FOTA (Firmware Over-the-Air)	256 k SRAM	512 k SRAM	256 k SRAM	256 k SRAM	512 k SRAM	1152 KB SRAM	1152 KB SRAM	1152 KB SRAM	1152 KB SRAM				
up to 84 I/Os	up to 143 I/Os	up to 218 I/Os	Low-Power Operating Modes and Peripherals (LP UART, FlexIO)	up to 143 I/Os	up to 218 I/Os	up to 143 I/Os	up to 143 I/Os	up to 218 I/Os	up to 218 I/Os							
16-ch. eDMA		32-ch. eDMA	32-ch. eDMA													
3 x CAN (3 x FD)	6 x CAN (6 x FD)		ASIL B/D Safety (ECC Memories, MPU, CRC, Watchdogs)	4 x CAN (4 x FD)	6 x CAN (6 x FD)	4 x CAN (4 x FD)	4 x CAN (4 x FD)	6 x CAN (6 x FD)	8 x CAN (8 x FD)	8 x CAN (8 x FD)	8 x CAN (8 x FD)	8 x CAN (8 x FD)				
100 Mbit/s Ethernet (TSN)			100 Mbit/s Ethernet (TSN)									1 Gbit/s Ethernet (TSN)				
1 x PC and 2 x PC	1 x PC and 2 x PC	2 x PC	eMOS Timers, Analogue Comparator, Logic Control Unit, Body Cross Triggering Unit, Trigger Mux	1 x PC and 2 x PC	2 x PC	1 x PC and 2 x PC	1 x PC and 2 x PC	2 x PC	1 x PC and 2 x PC							
4 x SPI*	6 x SPI*		JTAG	4 x SPI*	6 x SPI*	4 x SPI*	4 x SPI*	6 x SPI*								
2 x 24-ch. 12-bit ADC	3 x 24-ch. 12-bit ADC		S32 Design Studio IDE	2 x 24-ch. 12-bit ADC	3 x 24-ch. 12-bit ADC	2 x 24-ch. 12-bit ADC	2 x 24-ch. 12-bit ADC	3 x 24-ch. 12-bit ADC								
2 x SAI (PS)		2 x SAI (PS)														
Quad SPI			Quad SPI					Quad SPI + SDHC (SDIO)								
MaxQFP-172																
MaxQFP-100		Real-Time Drivers (RTD) for AUTOSAR® and non-AUTOSAR		MaxQFP-100	MaxQFP-100		MaxQFP-100									
MAPBGA-257		Security F/W Safety Framework Application Software		MAPBGA-257				MAPBGA-257	MAPBGA-289							

View additional information for [S32K312EVB-Q172通用开发板](#).

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