S32K344-WB Evaluation Board for Automotive General Purpose
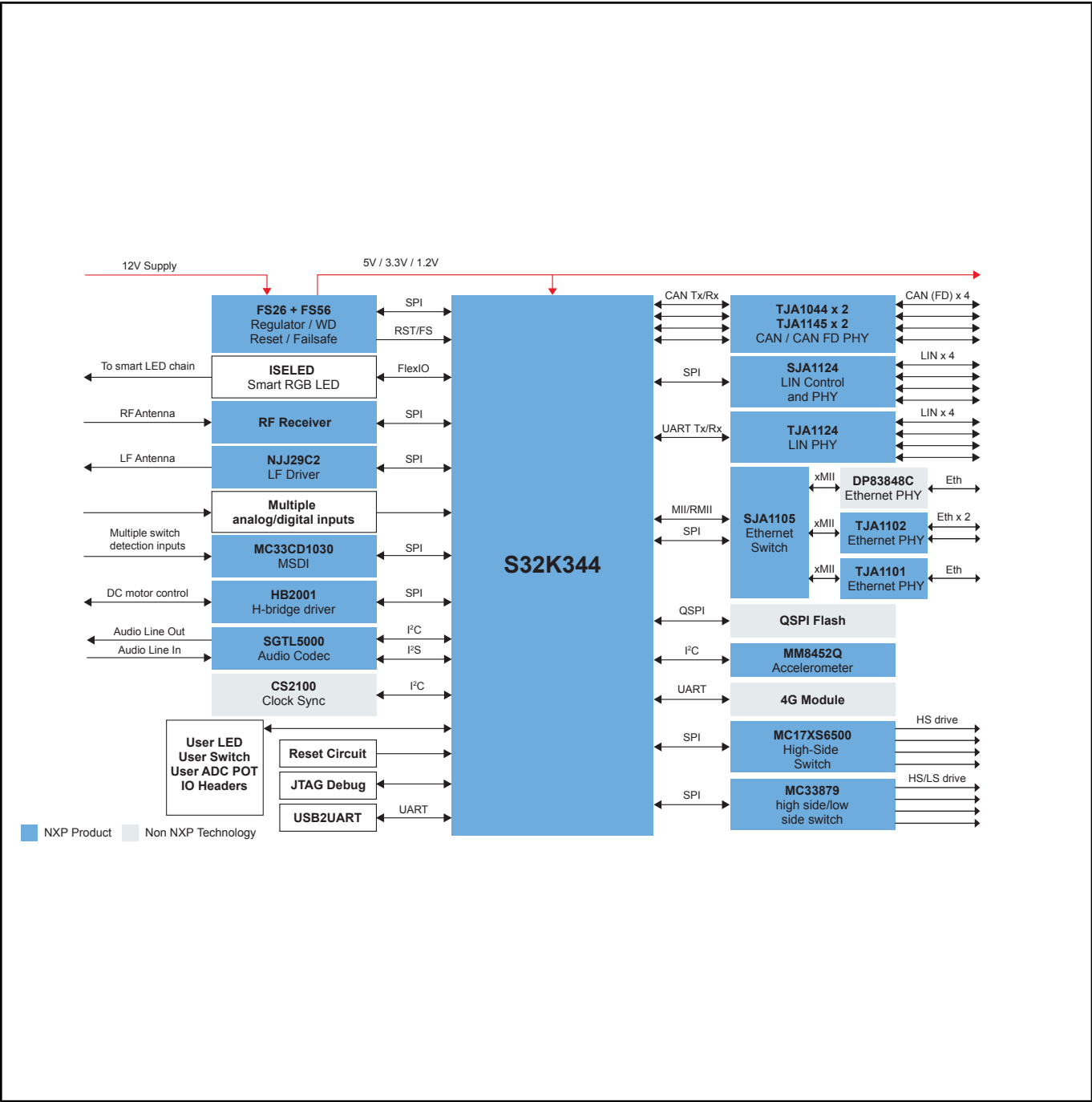
S32K344-WB

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

Based on the 32-bit Arm®, Cortex®-M7 S32K344 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 safety system basis chip, SJA1105 Ethernet switch and 100BASE-T1 for AVB demo and message routing. The NCK2910 RF receiver and NJJ29C2 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.

S32K344-WB Evaluation Board Block Diagram

12V Supply

5V / 3.3V / 1.2V

FS26 + FS56
Regulator / WD
Reset / Failsafe

SPI
RST/FS

ISELED
Smart RGB LED — To smart LED chain

FlexIO

RF Receiver — RFAntenna

SPI

NJJ29C2
LF Driver — LF Antenna

SPI

Multiple analog/digital inputs

MC33CD1030
MSDI — Multiple switch detection inputs

SPI

HB2001
H-bridge driver — DC motor control

SPI

SGTL5000
Audio Codec — Audio Line Out / Audio Line In

I²C
I²S

CS2100
Clock Sync

I²C

**User LED
User Switch
User ADC POT
IO Headers**

Reset Circuit

JTAG Debug

USB2UART

UART

S32K344

CAN Tx/Rx

**TJA1044 x 2
TJA1145 x 2**
CAN / CAN FD PHY — CAN (FD) x 4

SPI

SJA1124
LIN Control and PHY — LIN x 4

UART Tx/Rx

TJA1124
LIN PHY — LIN x 4

MII/RMII
SPI

SJA1105
Ethernet Switch

xMII — **DP83848C** Ethernet PHY — Eth

xMII — **TJA1102** Ethernet PHY — Eth x 2

xMII — **TJA1101** Ethernet PHY — Eth

QSPI

QSPI Flash

I²C

MM8452Q
Accelerometer

UART

4G Module

SPI

MC17XS6500
High-Side Switch — HS drive

SPI

MC33879
high side/low side switch — HS/LS drive

NXP Product   Non NXP Technology

View additional information for S32K344-WB Evaluation Board for Automotive General Purpose.

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

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