S32K344 Evaluation Board for Mobile Robotics with 100BASE-T1 and Six CANFD

MR-CANHUBK344

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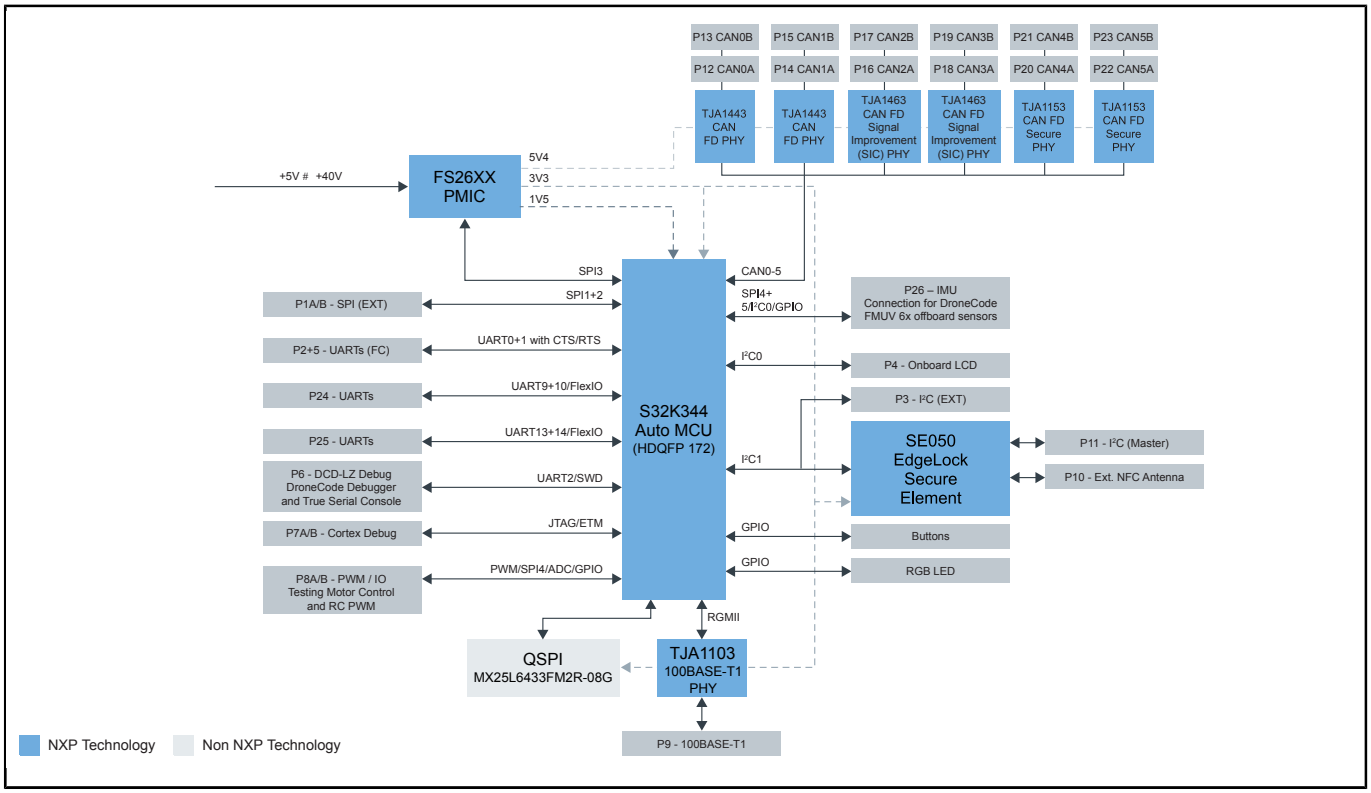
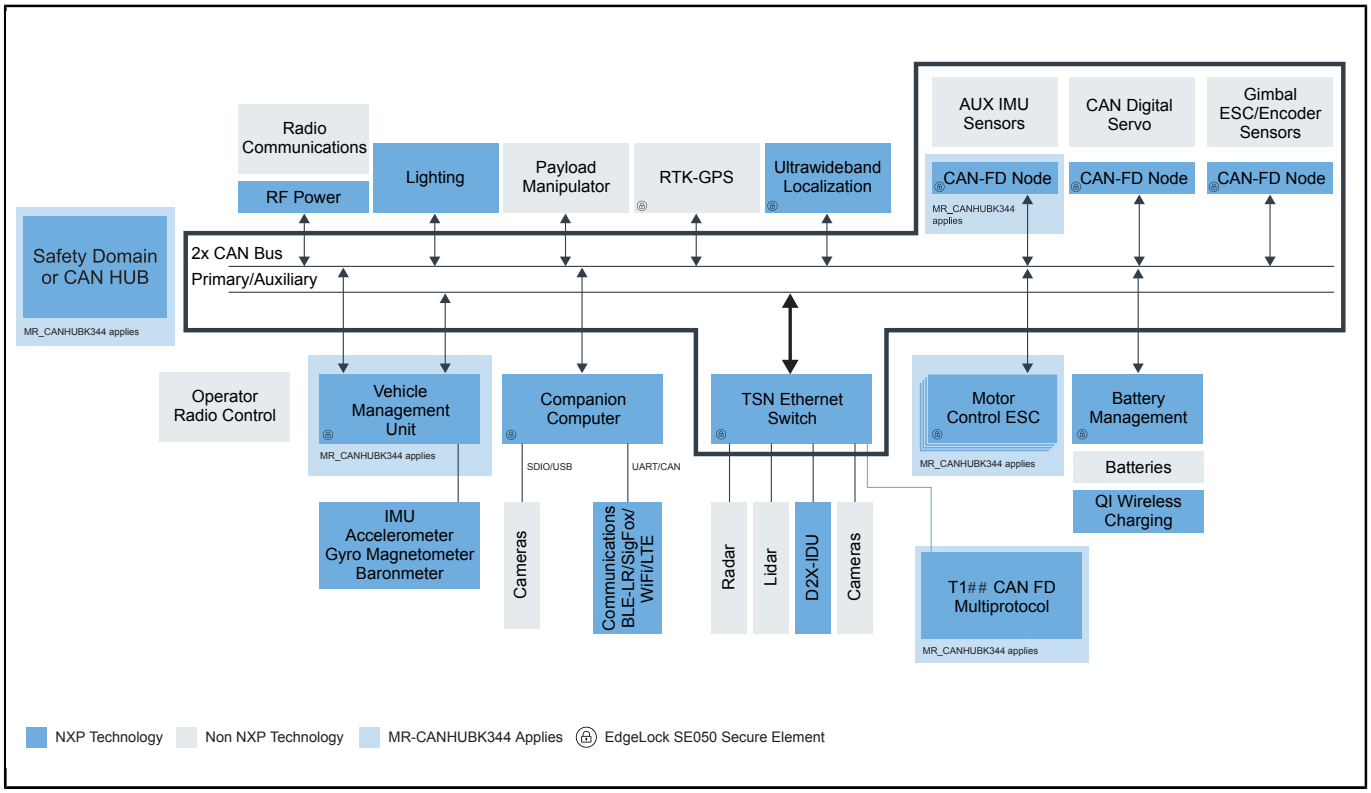
MR-CANHUBK344 is an evaluation board for mobile robotics applications such as autonomous mobile robots (AMR) and automated guided vehicles (AGV). Based on the Arm® Cortex®-M7 S32K3 general-purpose automotive microcontroller (MCU), featuring advanced safety, security and software support.

MR-CANHUBK344 includes 100BASE-T1 Ethernet (TJA1103) and six CAN FD ports (available in the S32K344). The six CAN ports are two each of CAN FD, CAN SIC (signal improvement) and CAN SCP (secure). Tunneling CAN over Ethernet using IEEE 1722 is one use case for this. The SE050 Secure Element with Near Field Communication (NFC) as well as other general purpose peripheral interfaces are also accessible on DroneCode standard JST-GH connectors.

S32K344 Evaluation Board for Mobile Robotics and 100BASE-T1 to CAN Bridging Block Diagram



Mobile Robotics Ecosystem Block Diagram



View additional information for S32K344 Evaluation Board for Mobile Robotics with 100BASE-T1 and Six CANFD.

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