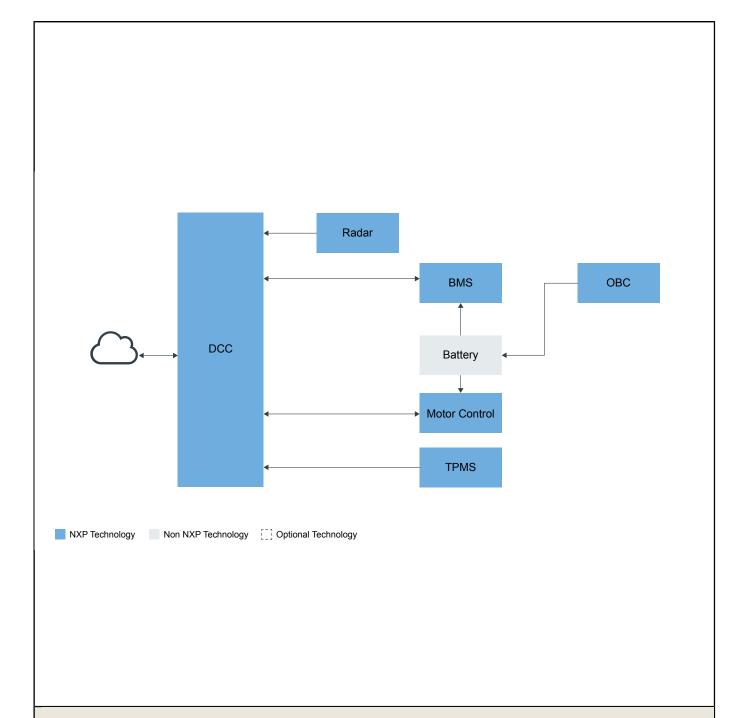


E-Scooter

Last Updated: Oct 13, 2023

The e-scooter is part of a broader ecosystem of electrified solutions that make life simpler, smarter and greener at every step: changing or charging the battery as well as sharing and driving the EV. Data is constantly analyzed to improve the efficiency of the vehicle, extend the range and increase the battery lifetime. Part of the future of mobility, the e-scooter offers a great experience and performance by adding smart connectivity solutions that connect the two-wheeler to the cloud. It follows industry standards that allows for continuous improvement to performance over time with over the air updates.

E-Scooter - Future Mobility Block Diagram



Recommended Products for E-Scooter - Future Mobility

DCC

- S32K1: S32K1 Microcontrollers for Automotive General Purpose
- FS86: Safety System Basis Chip For Domain Controller, Fit For ASIL B and D
- FS8400: Safety System Basis Chip for S32 Microcontrollers, Fit for ASIL B
- PF8100-PF8200: 12-Channel Power Management Integrated Circuit (PMIC) for High-Performance Processing Applications
- PCA2131: Nano-Power Highly Accurate RTC with Integrated Quartz Crystal for Automotive Applications
- NX5P3090UK: USB PD and Type-C Current-Limited Power Switch
- TJA1021: ISO17987 LIN 2.1/SAE J2602 Transceiver
- TJA1153: Secure HS-CAN Transceiver with Sleep Mode
- TJA1103: ASIL B Compliant 100BASE-T1 Ethernet PHY
- i.MX 8M Family Arm[®] Cortex[®]-A53, Cortex-M4, Audio, Voice, Video
- S32K3: S32K3 Microcontrollers for Automotive General Purpose
- * KW39/38/37: 32-Bit Bluetooth 5.0 Long-Range MCUs with CAN FD and LIN Bus Options, Arm® Cortex®-M0+ Core
- ullet 88W8987: 2.4/5 GHz Dual-Band 1x1 Wi-Fi $^{\hbox{\scriptsize (R)}}$ 5 (802.11ac) + Bluetooth $^{\hbox{\scriptsize (R)}}$ 5.2 Solution

	 NCJ38A: Automotive-Qualified Embedded Secure Element (SE) NCx3320: Automotive-Grade NFC Frontend IC NCJ29D5: Trimension™ NCJ29D5: UWB IC for Automotive Applications HB2002: SPI-Programmable H-Bridge Brushed DC Motor Driver XS2410: Quad 100 mΩ / Dual 50 mΩ, 3.0 V to 60 V High-Side Switch TJA1042: High-Speed CAN Transceiver with Standby Mode FXLS8967AF: ±2g/±4g/±8g/±16g, Low Power 12-bit Digital Accelerometer
Radar	S32R294: Radar Microcontroller TEF82xx: Fully Integrated 77 GHz RFCMOS Automotive Radar Transceiver TJA1120: TJA1120 Automotive Ethernet PHY 1000BASE-T1, ASIL B and TC-10 TJA1103: ASIL B Compliant 100BASE-T1 Ethernet PHY
BMS	S32K1: S32K1 Microcontrollers for Automotive General Purpose UJA1169ATK: Mini High-Speed CAN System Basis Chip MC33664: Isolated Network High-Speed Transceiver MC33771C: 14-Channel Li-Ion Battery Cell Controller IC PCA85073A: Automotive Tiny Real-Time Clock/Calendar with Alarm Function and I ² C-Bus
TPMS	NTM88: NTM88 Highly Integrated Tire Pressure Sensor Family
Motor Control	FS26: Safety System Basis Chip with Low Power, for ASIL D Systems S32K3: S32K3 Microcontrollers for Automotive General Purpose
OBC	S32K1: S32K1 Microcontrollers for Automotive General Purpose TJA1042: High-Speed CAN Transceiver with Standby Mode

View our complete solution for E-Scooter.

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

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