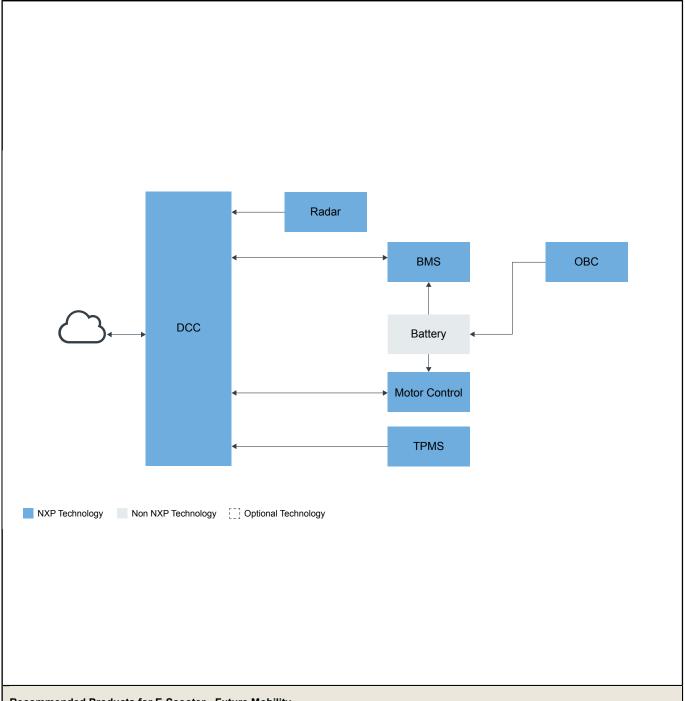


## **E-Scooter**

Last Updated: Apr 18, 2024

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
- PF81-PF82: 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: TJA1103, ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver
- i.MX8M: i.MX 8M Family Arm<sup>®</sup> Cortex<sup>®</sup>-A53, Cortex-M4, Audio, Voice, Video
- S32K3: S32K3 Microcontrollers for Automotive General Purpose
- KW39-38-37: KW39/38/37: 32-Bit Bluetooth 5.0 Long-Range MCUs with CAN FD and LIN Bus Options, Arm<sup>®</sup> Cortex<sup>®</sup>-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, ASIL B Compliant Automotive Ethernet 1000BASE-T1 PHY Transceiver     TJA1103: TJA1103, ASIL B Compliant Automotive Ethernet 100BASE-T1 PHY Transceiver
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 <sup>2</sup> 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.

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