



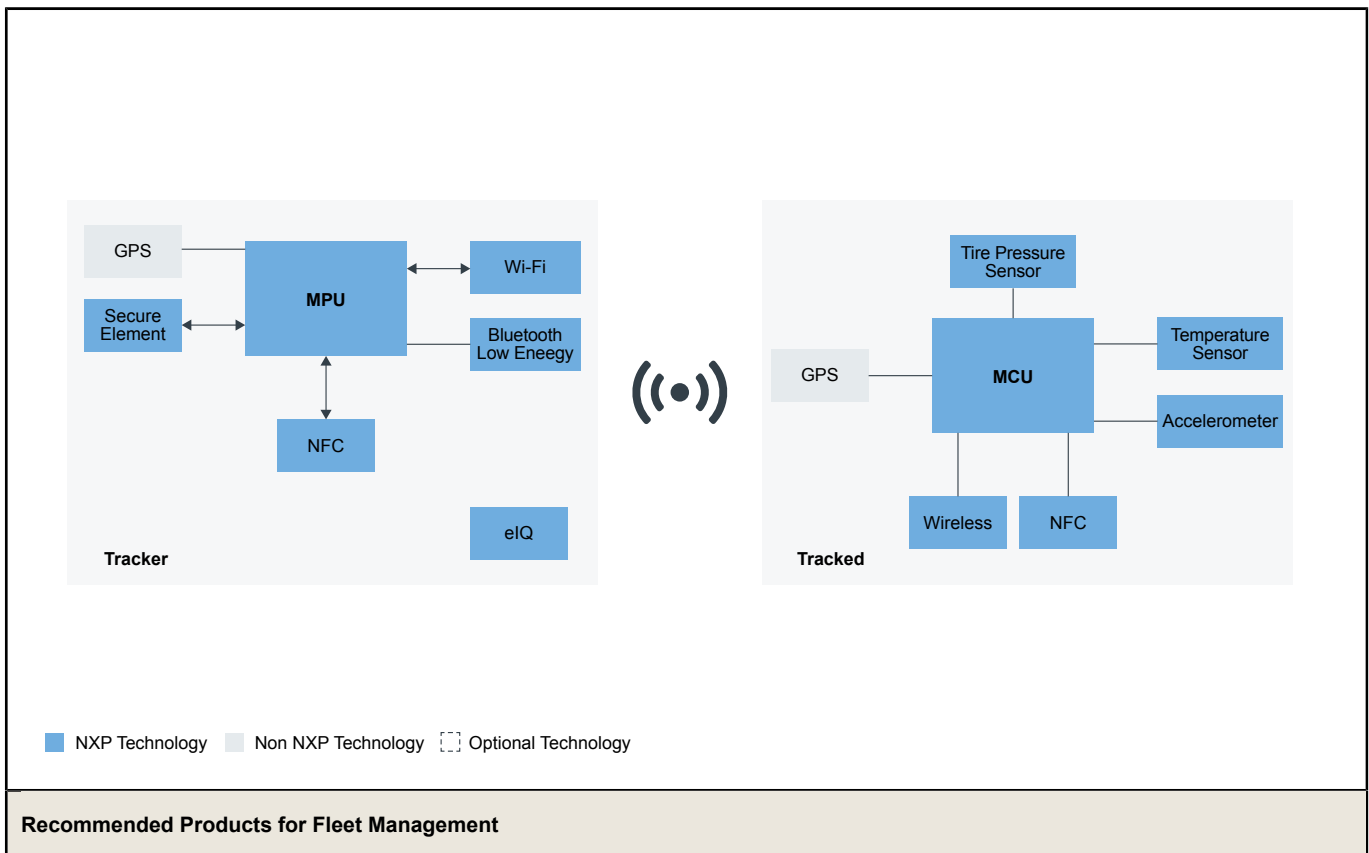
Fleet Management

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Fleet management systems are complex systems in charge of several activities such as: vehicle telematics (tracking and diagnostics), driver, speed and fuel management, route optimization, cargo tracking, preventive maintenance, among others. The introduction of Artificial Intelligence and Machine Learning (ML) ensures that mechanics, drivers and logistic managers make better decisions.

NXP's processors with real-time networking, sensors, NFC and RFID tracking applications, secure element and ML development platforms such as eIQ, make the right ecosystem to create an efficient fleet management system.

Fleet Management Block Diagram



MPU	<ul style="list-style-type: none"> • LS1043A: Layerscape® 1043A and 1023A Processors • LS1028A: Layerscape® 1028A Applications Processor • i.MX8M: i.MX 8M Family - Arm® Cortex®-A53, Cortex-M4, Audio, Voice, Video
NFC	<ul style="list-style-type: none"> • PN7160: 統合型ファームウェアおよびNClインターフェース搭載NFC Plug and Playコントローラ
Security (EdgeLock Discrete)	<ul style="list-style-type: none"> • SE050: EdgeLock® SE050 : Plug & Trustセキュア・エレメント・ファミリー - 柔軟性に優れた、IoT向けの高度なセキュリティ
Bluetooth Low Energy	<ul style="list-style-type: none"> • K32W061_41: K32W061/41: High-Performance, Secure and Ultra-Low-Power MCU for Zigbee®, Thread™, and Bluetooth® LE 5.0 with Built-In NFC Option
Wi-Fi	<ul style="list-style-type: none"> • IW416: 2.4/5 GHzデュアルバンド1x1 Wi-Fi® 4 (802.11n) およびBluetooth® 5.2ソリューション • 88MW32X 802.11n Wi-Fi® Microcontroller SoC
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elQ	<ul style="list-style-type: none"> • elQ ML <small>開発環境</small>: elQ® MLソフトウェア開発環境
MCU	<ul style="list-style-type: none"> • K32-L3: NXP's Energy Efficient Cortex-M4 MCU with Cortex-M0+ and Advanced Security
TPMS	<ul style="list-style-type: none"> • Tire Pressure Monitoring Systems (TPMS): Tire Pressure Monitoring Systems (TPMS)
温度	<ul style="list-style-type: none"> • P3T1035xUK: I3C/I²Cバスに対応した±0.5°C精度のデジタル温度センサ • P3T2030xUK: I3C/I²Cバスに対応した±2.0°C精度のデジタル温度センサ • PCT2075: I²C-Bus Fm+, 1 Degree C Accuracy, Digital Temperature Sensor and Thermal Watchdog
Accelerometer	<ul style="list-style-type: none"> • FXLS8974CF: ±2g/±4g/±8g/±16g, Low-Power 12-Bit Digital IoT Accelerometer

View our complete solution for [Fleet Management](#).

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