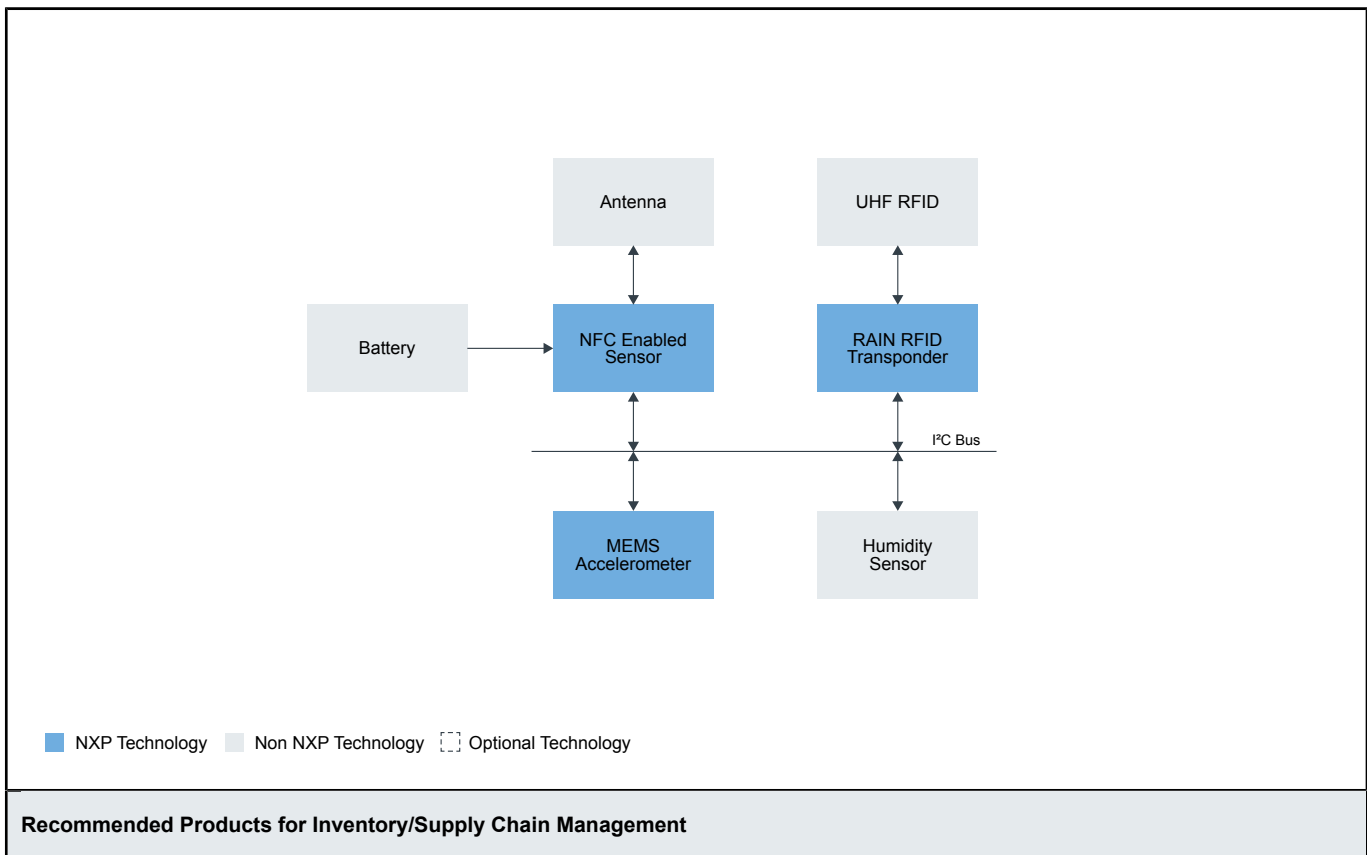# Inventory and Supply Chain Management

Last Updated: Dec 30, 2021

Whether for logistics, shipments, inventory control, security or regulatory compliance, NXP's RFID, edge processing and connectivity products can enable quick, accurate tracking of assets, providing greater visibility, deterring theft, increasing productivity, lowering organizational costs and giving greater control of the overall supply chain process.
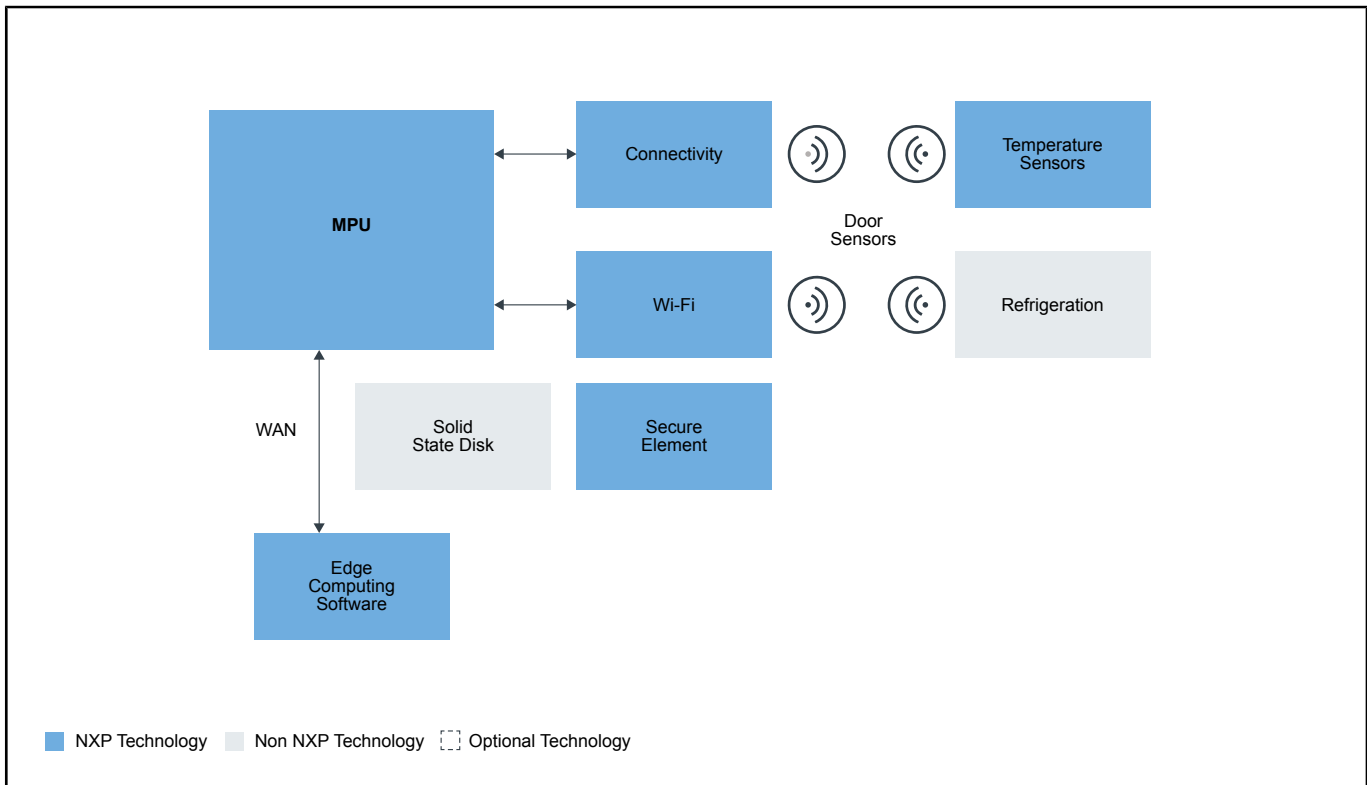
NXP's different RFID families such as UCODE, ICODE and NTAG and our Layerscape and i.MX powerful processing and connectivity options offer a great fit to supply chain optimization efforts.

Inventory/Supply Chain Management Block Diagram

NXP Technology   Non NXP Technology   Optional Technology

Recommended Products for Inventory/Supply Chain Management

NFC Enabled Sensor	• NHS3100: NTAG® SmartSensor with Temperature Sensor and Digital IOs • UCODE® DNA City
RAIN RFID Transponder	• UCODE® DNA City
MEMS Accelerometer	• FXLS8471Q: ±2g/±4g/±8g, Low g, 14-Bit Digital Accelerometer

Cold Storage Monitoring Block Diagram

| NXP Technology | Non NXP Technology | Optional Technology |

Recommended Products for Cold Storage Monitoring
MPU	• Layerscape® 1012A Low Power Processor • Layerscape® 1046A and 1026A Processors • Layerscape® 2088A and 2048A Processors • i.MX 8M Family - Arm® Cortex®-A53, Cortex-M4, Audio, Voice, Video
Edge Computing Software	• eIQ ML Development Environment: eIQ® ML Software Development Environment
Secure Element	• A71CH: Plug-and-Trust: The Fast, Easy Way to Deploy Secure IoT Connections
Connectivity	• KW41Z: Kinetis® KW41Z-2.4 GHz Dual Mode: Bluetooth® Low Energy and 802.15.4 Wireless Radio Microcontroller (MCU) based on Arm® Cortex®-M0+ Core • 88W9064: 2.4/5 GHz Dual-Band 4x4 Wi-Fi® 6 (802.11ax) Access Solution

Temperature Sensors	• LM75A: Digital Temperature Sensor and Thermal Watchdog • LM75B: Digital Temperature Sensor And Thermal Watchdog • KTY8X: Silicon Temperature Sensors
Wi-Fi	• 2.4/5 GHz Dual-Band 1x1 Wi-Fi® 4 (802.11n) + Bluetooth® 5.2 Solution • 88MW32X 802.11n Wi-Fi® Microcontroller SoC

View our complete solution for Inventory and Supply Chain Management.

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

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