



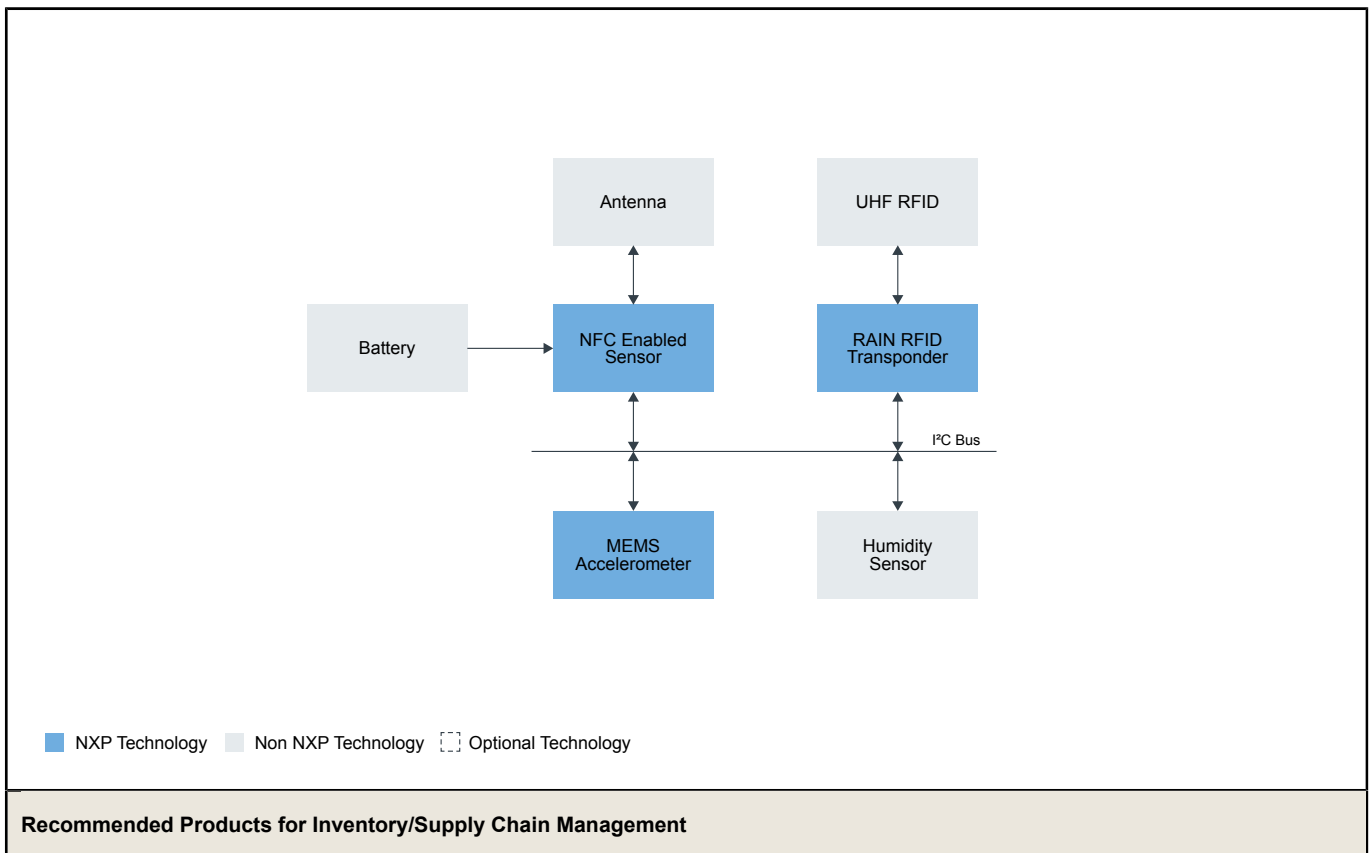
# Inventory and Supply Chain Management

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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.

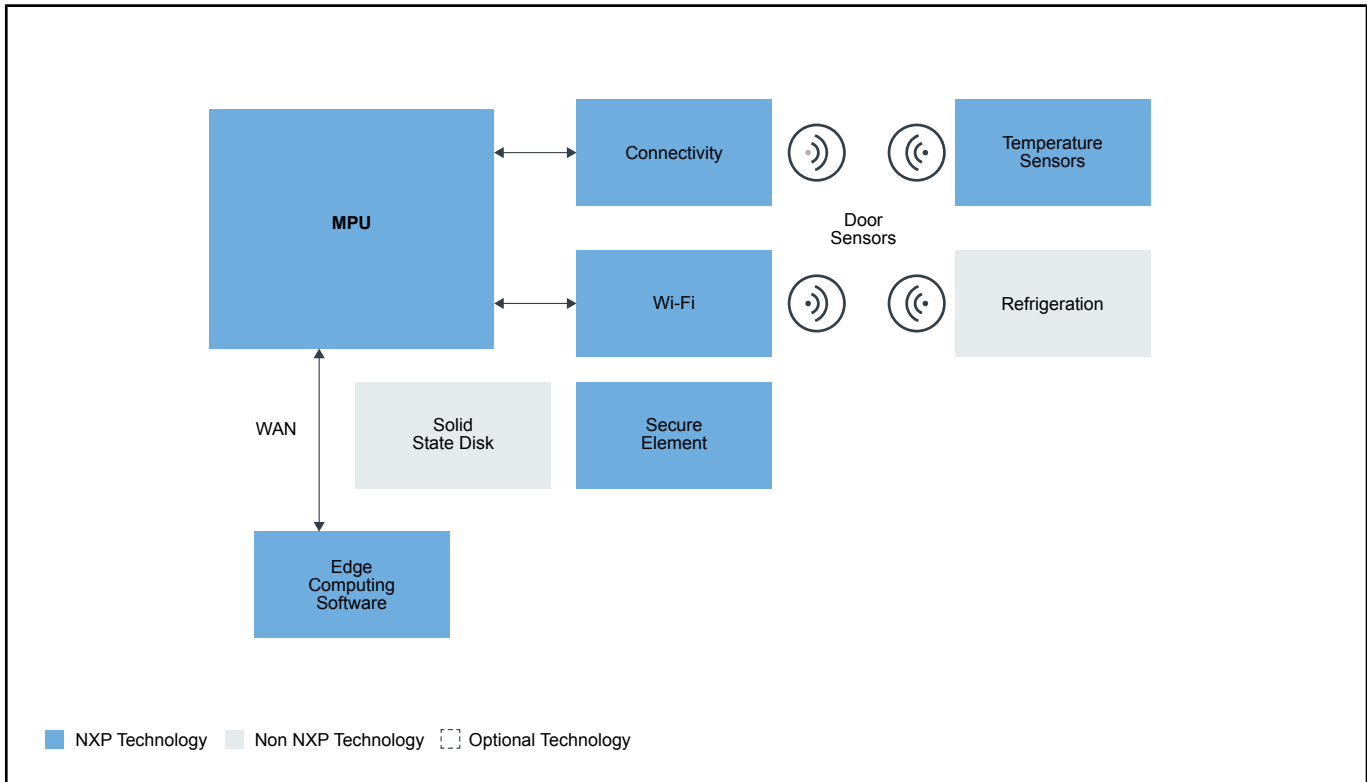
NXP's different RFID families such as UCODE, ICODE and NTAG and our Layerscape and i.MX powerful processing and connectivity options offer a great fit to supply chain optimization efforts.

## Inventory/Supply Chain Management Block Diagram



|                       |   |
|-----------------------|---|
| NFC Enabled Sensor    | <ul style="list-style-type: none"> <li>• <b>NHS3100</b>: NTAG<sup>®</sup> SmartSensor with Temperature Sensor and Digital IOs</li> <li>• <b>UCODE<sup>®</sup> DNA City</b></li> </ul> |
| RAIN RFID Transponder | <ul style="list-style-type: none"> <li>• <b>UCODE<sup>®</sup> DNA City</b></li> </ul>   |
| MEMS Accelerometer    | <ul style="list-style-type: none"> <li>• <b>FXLS8967AF</b>: ±2g/±4g/±8g/±16g, Low Power 12-bit Digital Accelerometer</li> </ul>   |

## Cold Storage Monitoring Block Diagram



### Recommended Products for Cold Storage Monitoring

|                         |   |
|-------------------------|---|
| MPU                     | <ul style="list-style-type: none"> <li>• <b>LS1012A</b>: Layerscape<sup>®</sup> 1012A Low Power Processor</li> <li>• <b>LS1046A</b>: Layerscape<sup>®</sup> 1046A and 1026A Processors</li> <li>• <b>LS2088A</b>: Layerscape<sup>®</sup> 2088A and 2048A Processors</li> <li>• <b>i.MX8M</b>: i.MX 8Mファミリ - Arm<sup>®</sup> Cortex<sup>®</sup>-A53, Cortex-M4、オーディオ、音声、ビデオ</li> </ul> |
| Edge Computing Software | <ul style="list-style-type: none"> <li>• <b>eIQ ML開発環境</b>: eIQ<sup>®</sup> MLソフトウェア開発環境</li> </ul>   |
| Secure Element          | <ul style="list-style-type: none"> <li>• <b>EDGELOCK-A5000</b>: EdgeLock<sup>®</sup> A5000 Plug and Trustセキュア・オーセンティケータ：セキュア、スケーラブルかつ簡単に認証を実現</li> </ul>  |
| Connectivity            | <ul style="list-style-type: none"> <li>• <b>KW41Z</b>: Kinetis<sup>®</sup> KW41Z-2.4 GHz Dual Mode: Bluetooth<sup>®</sup> Low Energy and 802.15.4 Wireless Radio Microcontroller (MCU) based on Arm<sup>®</sup> Cortex<sup>®</sup>-M0+ Core</li> <li>• <b>88W9098</b>: 2.4/5 GHzデュアルバンド2x2 Wi-Fi<sup>®</sup> 6 (802.11ax) + Bluetooth<sup>®</sup> 5.3</li> </ul>                      |

|                     |  |
|---------------------|--|
|                     | <ul style="list-style-type: none"> <li>• <b>IW612</b>: 2.4/5 GHzデュアルバンド1x1 Wi-Fi<sup>®</sup> 6 (802.11ax) + Bluetooth<sup>®</sup> 5.4 + 802.15.4トライラジオ・ソリューション</li> </ul>  |
| Temperature Sensors | <ul style="list-style-type: none"> <li>• <b>LM75B</b>: Digital Temperature Sensor and Thermal Watchdog</li> <li>• <b>P3T1035xUK</b>: I3C/I<sup>2</sup>Cバスに対応した±0.5°C精度のデジタル温度センサ</li> </ul>  |
| Wi-Fi               | <ul style="list-style-type: none"> <li>• <b>IW416</b>: 2.4/5 GHzデュアルバンド1x1 Wi-Fi<sup>®</sup> 4 (802.11n) およびBluetooth<sup>®</sup> 5.2ソリューション</li> <li>• <b>RW610</b>: 無線内蔵ワイヤレスMCU : 1x1 Wi-Fi<sup>®</sup> 6 + Bluetooth<sup>®</sup> Low Energy 5.4無線</li> <li>• <b>RW612</b>: トライラジオ内蔵ワイヤレスMCU : 1x1 Wi-Fi<sup>®</sup> 6 + Bluetooth<sup>®</sup> Low Energy 5.4 / 802.15.4</li> </ul> |

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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