

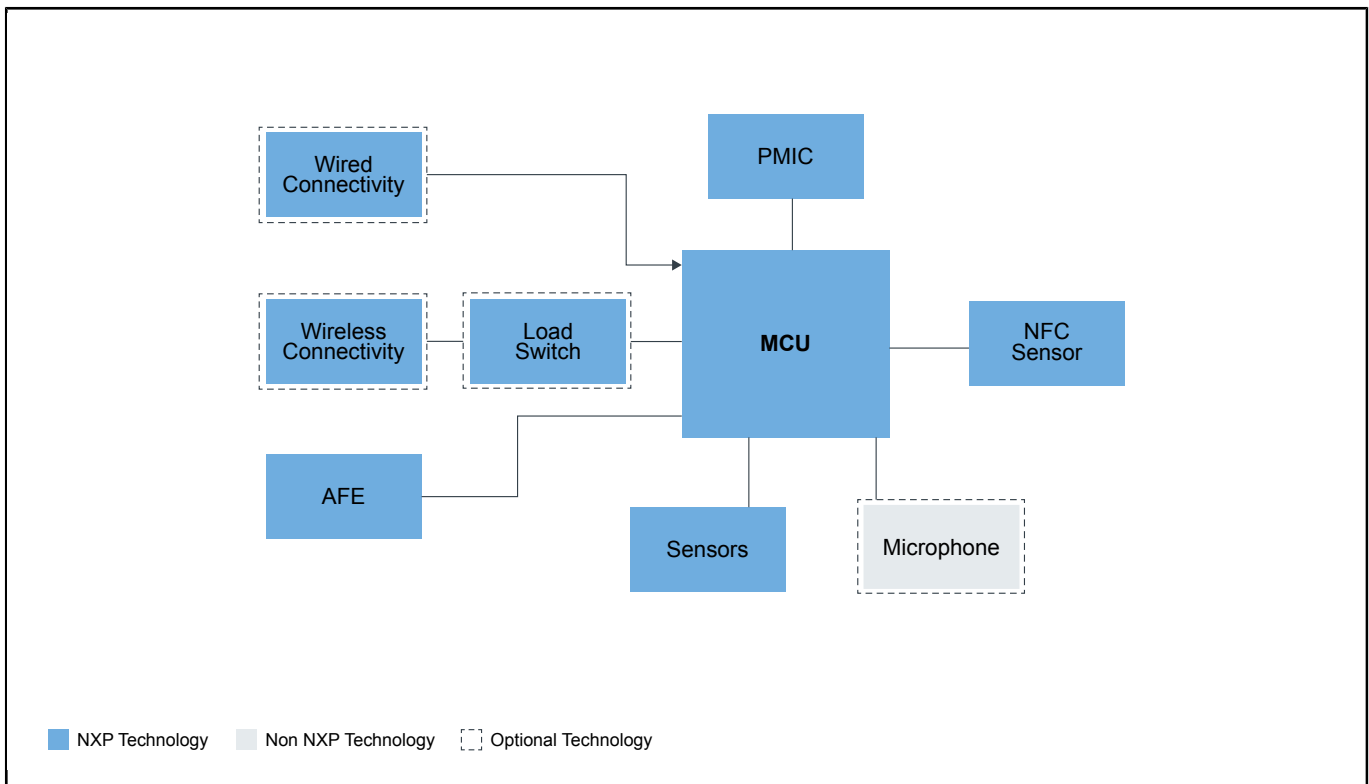


# Anomaly Detection

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Anomaly detection is synonym of machine condition monitoring. Early detection of anomalies allows preventive maintenance and avoids production losses. Ideally, an Industry 4.0 factory will be built from scratch with new production machinery and capital investments, but in reality this equipment is usually used for decades. A small and lightweight sensing tag based on the NTAG SmartSensor and a MCU with machine learning capabilities provides a way to add sensory and logging capabilities to existing machinery without disturbing or interfering during normal operations.

## Anomaly detection Block Diagram



### Recommended Products for Anomaly detection

MPU/MCU

\* i.MX 8M Family - Arm® Cortex®-A53, Cortex-M4, Audio, Voice, Video

	<ul style="list-style-type: none"> <li>• <a href="#">i.MX RT1050 Crossover MCU with Arm® Cortex®-M7 Core</a></li> <li>• <a href="#">i.MX RT1060 Crossover MCU with Arm® Cortex®-M7 Core</a></li> </ul>
NFC	<ul style="list-style-type: none"> <li>• <a href="#">NHS3100: NTAG® SmartSensor with Temperature Sensor and Digital IOs</a></li> </ul>
MEMS	<ul style="list-style-type: none"> <li>• <a href="#">MEMS Accelerometer: ±2g/±4g/±8g, Low g, 14-Bit Digital Accelerometer</a></li> </ul>
PMIC	<ul style="list-style-type: none"> <li>• <a href="#">PF4210: 14-Channel Power Management IC Optimized for i.MX 8M</a></li> </ul>
Wi-Fi + Bluetooth	<ul style="list-style-type: none"> <li>• <a href="#">88W8987: 2.4/5 GHz Dual-Band 1x1 Wi-Fi® 5 (802.11ac) + Bluetooth® 5.2 Solution</a></li> <li>• <a href="#">2.4/5 GHz Dual-Band 1x1 Wi-Fi® 4 (802.11n) + Bluetooth® 5.2 Solution</a></li> </ul>

View our complete solution for [Anomaly Detection](#).

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

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