

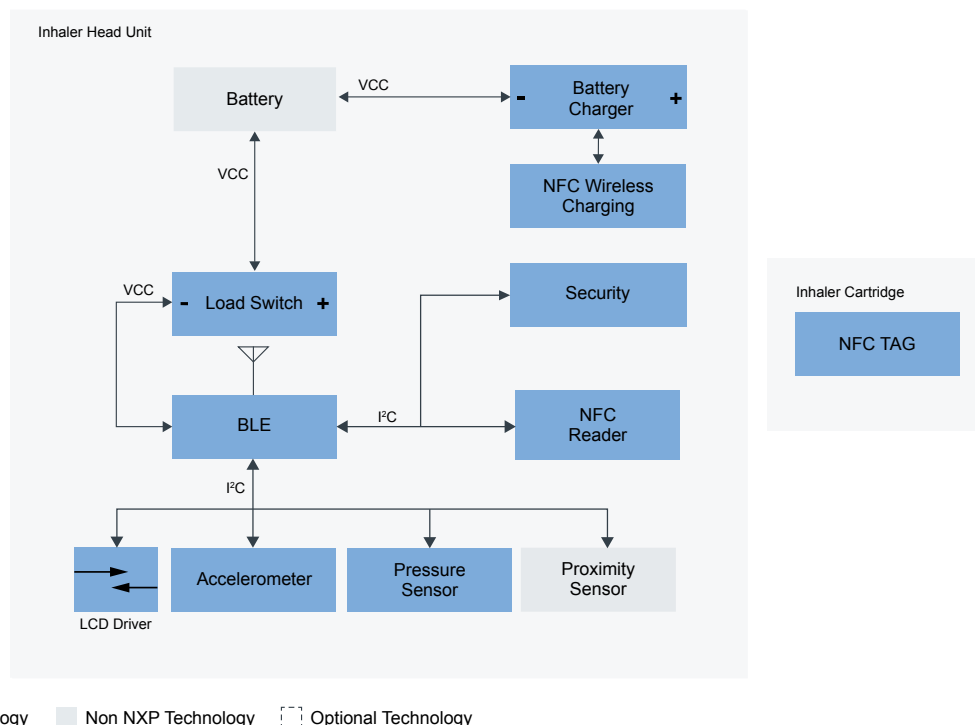


# Smart Inhaler

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NXP offers a broad portfolio of sensors and MCUs, such as [QN9090](#), [K32W061](#) and [NHS52Sx4](#) wireless MCU families, capable of delivering precision for medical IoT and healthcare applications. This new smart inhaler will count with wireless connectivity, security integration and brand protection for the gas cartridge, with security to protect the information of the patient and upload it to the cloud in order to configure the inhaler from the doctor's side.

## Smart Inhaler Block Diagram



Recommended Products for Smart Inhaler	
Battery Charger	<ul style="list-style-type: none"> <li>• <a href="#">MC34671</a>: 600 mA Single-Cell Li-Ion / Li-Polymer Battery Charger</li> </ul>
Load Switch	<ul style="list-style-type: none"> <li>• <a href="#">NX3P2902BUK</a>: Logic-Controlled High-Side Power Switch</li> </ul>
Security	<ul style="list-style-type: none"> <li>• <a href="#">SE051</a>: EdgeLock® SE051: Proven, Easy-to-Use IoT Security Solution with Support for Updatability and Custom Applets</li> <li>• <a href="#">EDGELOCK-A5000</a>: EdgeLock® A5000 Plug and Trust Secure Authenticator: Authentication Made Secure, Scalable and Easy</li> </ul>
BLE	<ul style="list-style-type: none"> <li>• <a href="#">NHS52S04</a>: NHS52S04: Ultra-Low-Power Bluetooth® Low Energy Solution With Arm® Cortex®-M33 TrustZone® for Medical IoT</li> <li>• <a href="#">QN9090-30</a>: QN9090/30: Bluetooth Low-Energy MCU with Arm®Cortex®-M4 CPU, Energy Efficiency, Analog and Digital Peripherals and NFC Tag Option</li> <li>• <a href="#">K32W061_41</a>: K32W061/41: High-Performance, Secure and Ultra-Low-Power MCU for Zigbee®, Thread™, and Bluetooth® LE 5.0 with Built-In NFC Option</li> </ul>
NFC	<ul style="list-style-type: none"> <li>• <a href="#">PN7160</a>: NFC Plug and Play Controller with Integrated Firmware and NCI Interface</li> <li>• <a href="#">PN7462</a>: NFC Cortex®-M0 All-in-One Microcontroller with Optional Contact Interface for Access Control</li> </ul>
Accelerometer	<ul style="list-style-type: none"> <li>• <a href="#">FXLS8974CF</a>: ±2g/±4g/±8g/±16g, Low-Power 12-Bit Digital IoT Accelerometer</li> <li>• <a href="#">FXLS8971CF</a>: ±2g/±4g/±8g/±16g, Low Power 12-Bit Digital Accelerometer</li> </ul>
NFC Tag	<ul style="list-style-type: none"> <li>• <a href="#">NTAG424DNA</a>: NTAG® 424 DNA / 424 DNA TagTamper – Advanced Security and Privacy for Trusted IoT Applications</li> <li>• <a href="#">NTAG_223_224_DNA</a>: NTAG® 223 / 224 DNA - Certified NFC Security Chip Technology to Enable Trusted IoT Applications at Scale</li> <li>• <a href="#">SL2S2602</a>: ICODE® SLIX2 NFC Forum Type 5 Tag with Originality Signature</li> <li>• <a href="#">SL2S6002FUD</a>: ICODE DNA NFC Forum Type 5 Tag with AES Cryptography</li> </ul>
LCD Driver	<ul style="list-style-type: none"> <li>• <a href="#">PCA8561</a>: Automotive 18 X 4 LCD Segment Driver</li> </ul>
Wireless Charging	<ul style="list-style-type: none"> <li>• <a href="#">CRN120</a>: NFC Wireless Charging Communication Receiver Frontend</li> <li>• <a href="#">CTN73x</a>: NFC Wireless Charging Transmitter</li> <li>• <a href="#">PCA943X</a>: NFC Wireless Charging Power Receiver</li> </ul>
Pressure Sensor	<ul style="list-style-type: none"> <li>• <a href="#">FXPQ3115BV</a>: Biomedical Precision Pressure Sensor</li> </ul>

View our complete solution for [Smart Inhaler](#).

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

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