



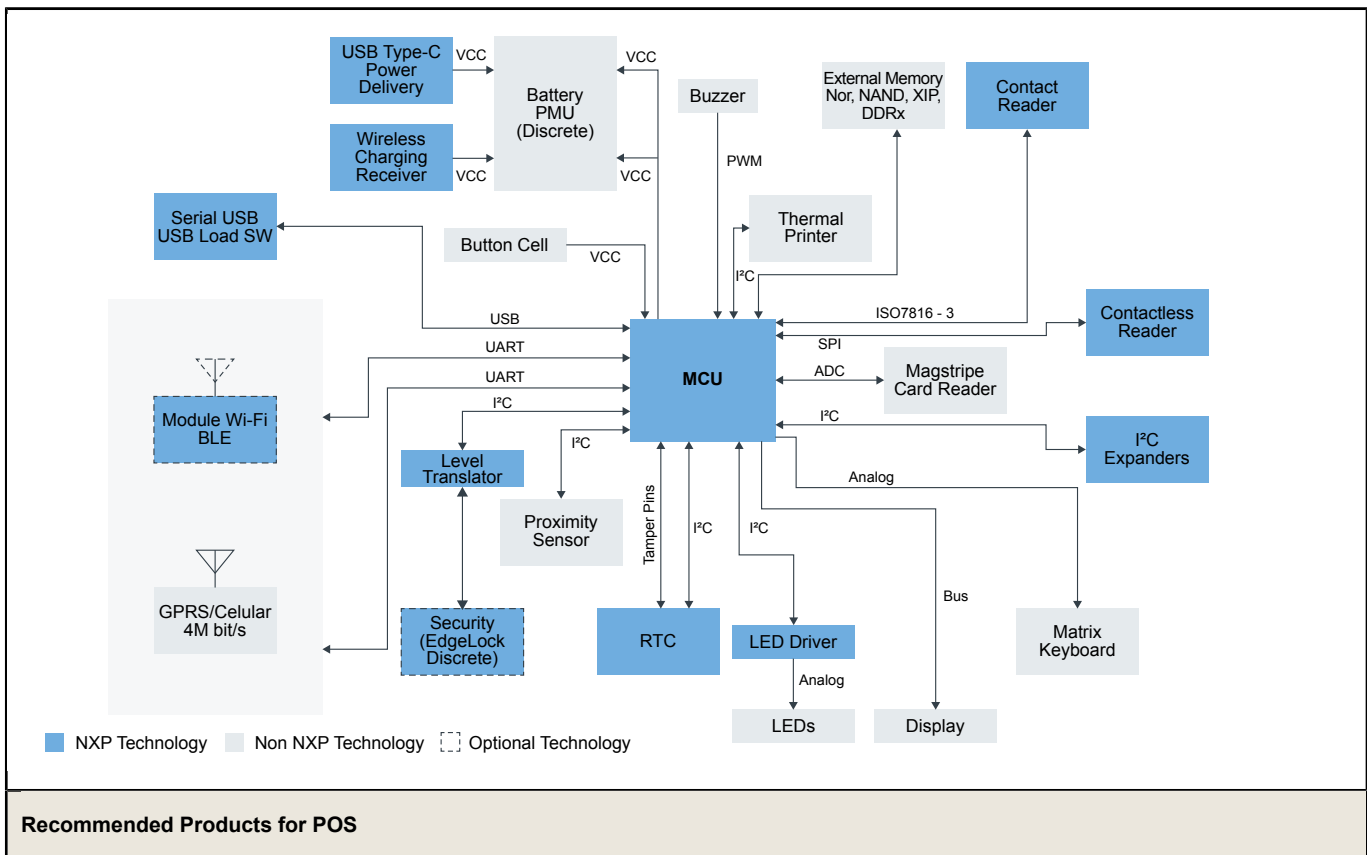
# POS Terminal

Last Updated: Apr 18, 2024

Point of Sale (PoS) terminals are key elements in payment systems for retailers or restaurants in Smart Cities. These battery-powered terminals have small form factors and can integrate functions such as a display, a card reader, a keypad and a printer. Terminals usually include wireless communication to a back-office server or a main stationary ePOS terminal. They also support magnetic, smart and contactless payment cards.

NXP solutions power secure, on-the-go mobile payment terminals, providing end users the ease-of-use of contact and contactless payment. Our security features help the designer to get the necessary PCI PTS PIN entry device (PED) and EMVCo certifications.

## POS Block Diagram



Recommended Products for POS

MCU	<ul style="list-style-type: none"> <li>• <a href="#">MCX-A14X-A15X</a>: MCX A14x/15x MCUs with Arm® Cortex® M33, Scalable Device Options, Low Power and Intelligent Peripherals</li> <li>• <a href="#">MCX-N94X-N54X</a>: MCX N94x/54x Highly Integrated Multicore MCUs with On-Chip Accelerators, Intelligent Peripherals and Advanced Security</li> <li>• <a href="#">K81_150</a>: Kinetis K81-150 MHz HW Cryptographic Co-Processor, Anti-Tamper and QuadSPI Microcontrollers (MCUs) Based on Arm® Cortex®-M4 Core</li> <li>• <a href="#">i.MX-RT1170</a>: i.MX RT1170: 1 GHz Crossover MCU with Arm® Cortex® Cores</li> </ul>
USB Type C Delivery	<ul style="list-style-type: none"> <li>• <a href="#">USB Type-C Power Delivery PHY and Protocol IC</a></li> </ul>
RTC	<ul style="list-style-type: none"> <li>• <a href="#">PCF85053A</a>: Bootable CPU RTC with Two I<sup>2</sup>C Buses, 128 Byte SRAM and Alarm Function</li> <li>• <a href="#">PCA2131</a>: Nano-Power Highly Accurate RTC with Integrated Quartz Crystal for Automotive Applications</li> <li>• <a href="#">PCF2131</a>: Nano-Power Highly Accurate RTC with Integrated Quartz Crystal</li> </ul>
Contact Reader	<ul style="list-style-type: none"> <li>• <a href="#">TDA8035HN</a>: High-Integrated and Low-Power Smart Card Interface</li> <li>• <a href="#">TDA8026ET</a>: Multiple Smart Card Slot Interface</li> </ul>
Contactless Reader	<ul style="list-style-type: none"> <li>• <a href="#">PN5190</a>: NFC Frontend supporting challenging RF environment for payment, physical access control</li> </ul>
I2C Expander	<ul style="list-style-type: none"> <li>• <a href="#">PCAL6408A</a>: Low-Voltage Translating, 8-Bit I<sup>2</sup>C-Bus/SMBus I/O Expander</li> <li>• <a href="#">PCAL9722</a>: 22-Bit SPI I/O Expander with Agile I/O Features</li> <li>• <a href="#">PCAL9714</a>: 14-Bit SPI I/O Expander with Agile I/O Features</li> </ul>
Wireless Charging receiver	<ul style="list-style-type: none"> <li>• <a href="#">MWPR1516</a>: 15 Watt Wireless Charging Receiver ICs</li> </ul>
Wi-Fi + Bluetooth	<ul style="list-style-type: none"> <li>• <a href="#">QN9080</a>: QN908x: Ultra-Low-Power Bluetooth Low Energy System on Chip Solution</li> <li>• <a href="#">IW416</a>: 2.4/5 GHz Dual-Band 1x1 Wi-Fi® 4 (802.11n) + Bluetooth® 5.2 Solution</li> <li>• <a href="#">88MW32X 802.11n Wi-Fi® Microcontroller SoC</a></li> <li>• <a href="#">88W8987</a>: 2.4/5 GHz Dual-Band 1x1 Wi-Fi® 5 (802.11ac) + Bluetooth® 5.2 Solution</li> </ul>
Level Translator	<ul style="list-style-type: none"> <li>• <a href="#">PCA9306</a>: Dual Bidirectional I<sup>2</sup>C-Bus and SMBus Voltage-Level Translator</li> <li>• <a href="#">P3A9606</a>: Dual Bidirectional I<sup>3</sup>C/I<sup>2</sup>C-Bus and SPI Voltage-Level Translator</li> </ul>
Security (EdgeLock Discrete)	<ul style="list-style-type: none"> <li>• <a href="#">SE050</a>: EdgeLock® SE050: Plug and Trust Secure Element Family – Enhanced IoT security with high flexibility</li> <li>• <a href="#">SE051</a>: EdgeLock® SE051: Proven, Easy-to-Use IoT Security Solution with Support for Updatibility and Custom Applets</li> </ul>
Serial USB Load SW	<ul style="list-style-type: none"> <li>• <a href="#">NX5P3290UK</a>: USB PD and Type-C Current-Limited Power Switch</li> </ul>
LED Driver	<ul style="list-style-type: none"> <li>• <a href="#">PCA9632</a>: 4-Bit Fm+ I<sup>2</sup>C-Bus Low-Power LED Driver</li> </ul>

View our complete solution for [POS Terminal](#).

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