

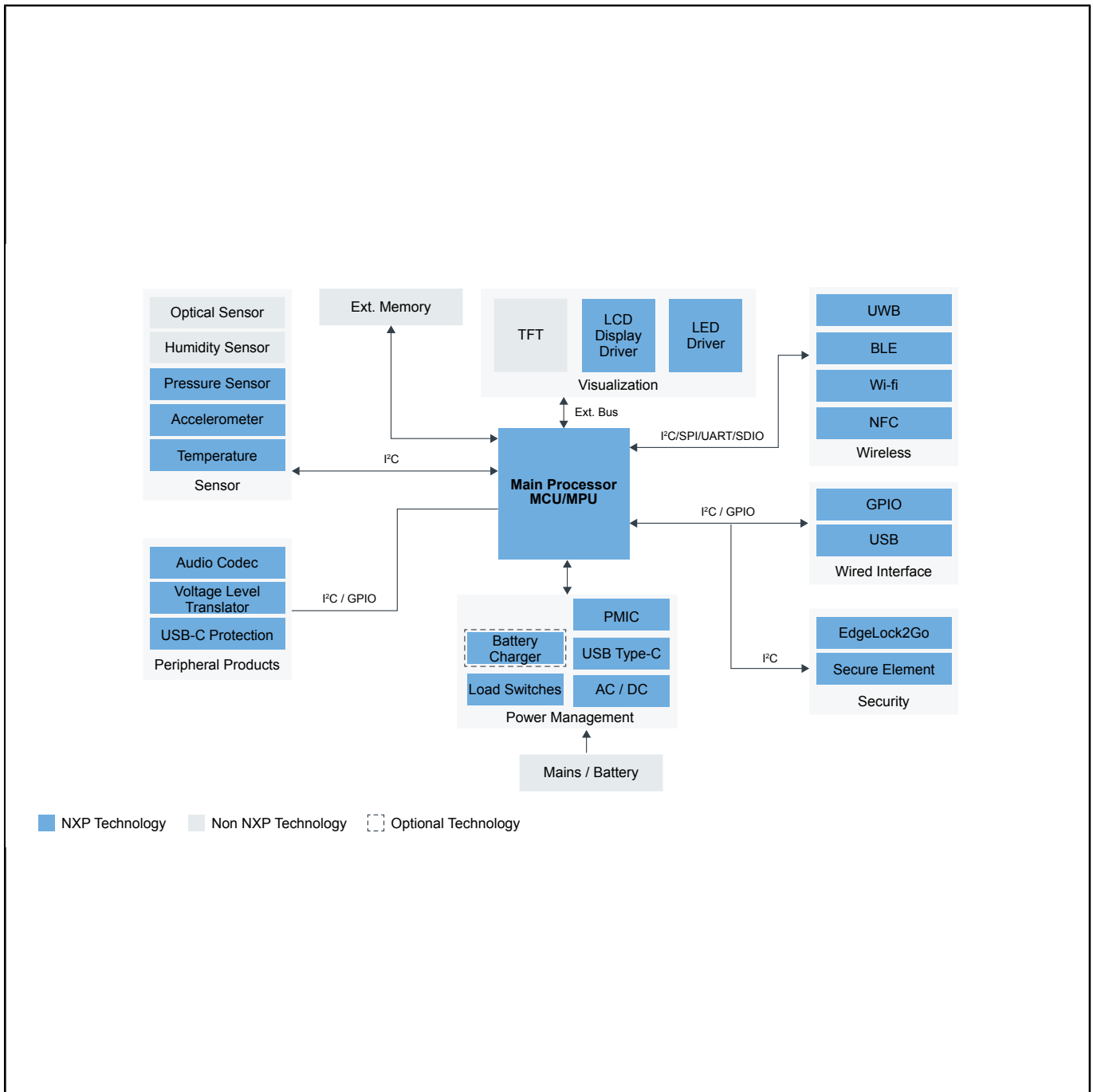


Patient Monitor

Last Updated: Dec 6, 2023

Patient monitors can measure a patient's vital signs, display it on a monitor and transmit this data to a network. NXP products and solutions are capable of processing the received signals to help with their interpretation along with their display in a graphical interface. With our connectivity solutions, it is possible to securely store this data in the patient's physician medical profile.

Patient Monitor Block Diagram



Recommended Products for Patient Monitor

Main Processor MCU/MPU	<ul style="list-style-type: none"> • NHS52S04: NHS52S04: Ultra-Low-Power Bluetooth® Low Energy Solution With Arm® Cortex®-M33 TrustZone® for Medical IoT • LPC553x: LPC553x/S3x: Advanced Analog Arm®Cortex®-M33-Based MCU Family • i.MX8M: i.MX 8M Family - Arm® Cortex®-A53, Cortex-M4, Audio, Voice, Video • KV3x: Kinetis® KV3x-100–120 MHz, Advanced 3ph FOC / Sensorless Motor Control MCUs based on Arm® Cortex®-M4
Pressure Sensor	<ul style="list-style-type: none"> • MPXx4006: Differential and Gauge, Integrated Pressure Sensor (0 to 6 kPa)
Accelerometer	<ul style="list-style-type: none"> • FXLS8974CF: ±2g/±4g/±8g/±16g, Low-Power 12-Bit Digital IoT Accelerometer
Temperature Sensor	<ul style="list-style-type: none"> • P3T1035xUK: I3C, I²C-Bus, ±0.5 °C Accuracy, Digital Temperature Sensor • P3T2030xUK: I3C, I²C-Bus, 2.0 °C Accuracy, Digital Temperature Sensor • SA56004X: SMBus-Compatible, 8-Pin, Remote/Local Digital Temperature Sensor
Audio Codec	<ul style="list-style-type: none"> • SGTL5000: Ultra-Low-Power Audio Codec
Voltage Level Translator	<ul style="list-style-type: none"> • Voltage Level Translators: Voltage Level Translators
USB-C Protection	<ul style="list-style-type: none"> • NX20P0477: USB Type-C CC Smart Protection
Battery Charger	<ul style="list-style-type: none"> • MC34673: 1.2 A Single-Cell Li-Ion / Li-Polymer Battery Charger
Load Switches	<ul style="list-style-type: none"> • Load Switches: Load Switches
PMIC	<ul style="list-style-type: none"> • PF8100-PF8200: 12-Channel Power Management Integrated Circuit (PMIC) for High-Performance Processing Applications • PCA9420-PCA9421: PMIC for Low Power Applications
USB Type-C	<ul style="list-style-type: none"> • USB Type C: USB Type-C Plug'n Play: Efficient Data and Power Delivery • NX20P0477: USB Type-C CC Smart Protection
AC/DC	<ul style="list-style-type: none"> • AC-DC Solutions: AC-DC Solutions
LCD Display Driver	<ul style="list-style-type: none"> • PCF8551: Universal 36 × 4 LCD Segment Driver
LED Driver	<ul style="list-style-type: none"> • PCA9956BTW: 24-Channel Fm+ I²C-Bus 57 MA/20 V Constant-Current LED Driver
UWB	<ul style="list-style-type: none"> • Trimension® UWB: Trimension® Ultra-Wideband (UWB)

Air Conditioning GPIO	<ul style="list-style-type: none"> • PCAL9714: 14-Bit SPI I/O Expander with Agile I/O Features • PCAL9722: 22-Bit SPI I/O Expander with Agile I/O Features
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Air Conditioning GPIO	<ul style="list-style-type: none"> • MCX-A14X-A15X: MCX A14x/15x MCUs with Arm® Cortex® M33, Scalable Device Options, Low Power and Intelligent Peripherals • MCX-N94X-N54X: MCX N94x/54x Highly Integrated Multicore MCUs with On-Chip Accelerators, Intelligent Peripherals and Advanced Security • PCAL9714: 14-Bit SPI I/O Expander with Agile I/O Features • PCAL9722: 22-Bit SPI I/O Expander with Agile I/O Features

View our complete solution for [Patient Monitor](#).

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