



Page EEPROM Healthcare solution



Healthcare market





Healthcare application examples

Reliable retention of **critical device data** is essential for healthcare equipment, which must preserve calibration, configuration, and safety-related information to ensure consistent operation.

Portable monitoring devices



- ECG patches
- Glucose monitors

Therapy management



- Infusion pumps
- Smart inhalers

Portable diagnostics



- Portable diagnostic devices
- Handheld analyzers



How Page EEPROM enhances healthcare devices

Reliable data storage

- Intensive data monitoring (logs, user data, events)
- Robust code and data integrity
- Extended battery lifetime

Enable smarter applications



About Page EEPROM



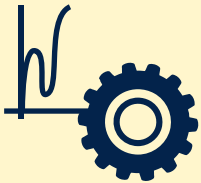


Application benefits



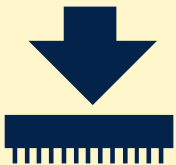
Maximize battery life

Conserve power for what matters most



Enable greater accuracy

Data monitoring made easy



Reduce FOTA* downtime

Fast firmware upload/download



*Firmware over-the-air

Page EEPROM introduction

A unique product

Get the best of both worlds:
Power efficiency and durability of an EEPROM
with capacity and speed of a Flash memory

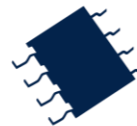
Memory densities

8-Mbit

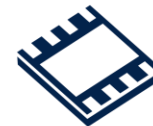
16-Mbit

32-Mbit

Package types



SO-8



DFN8



WLCSP

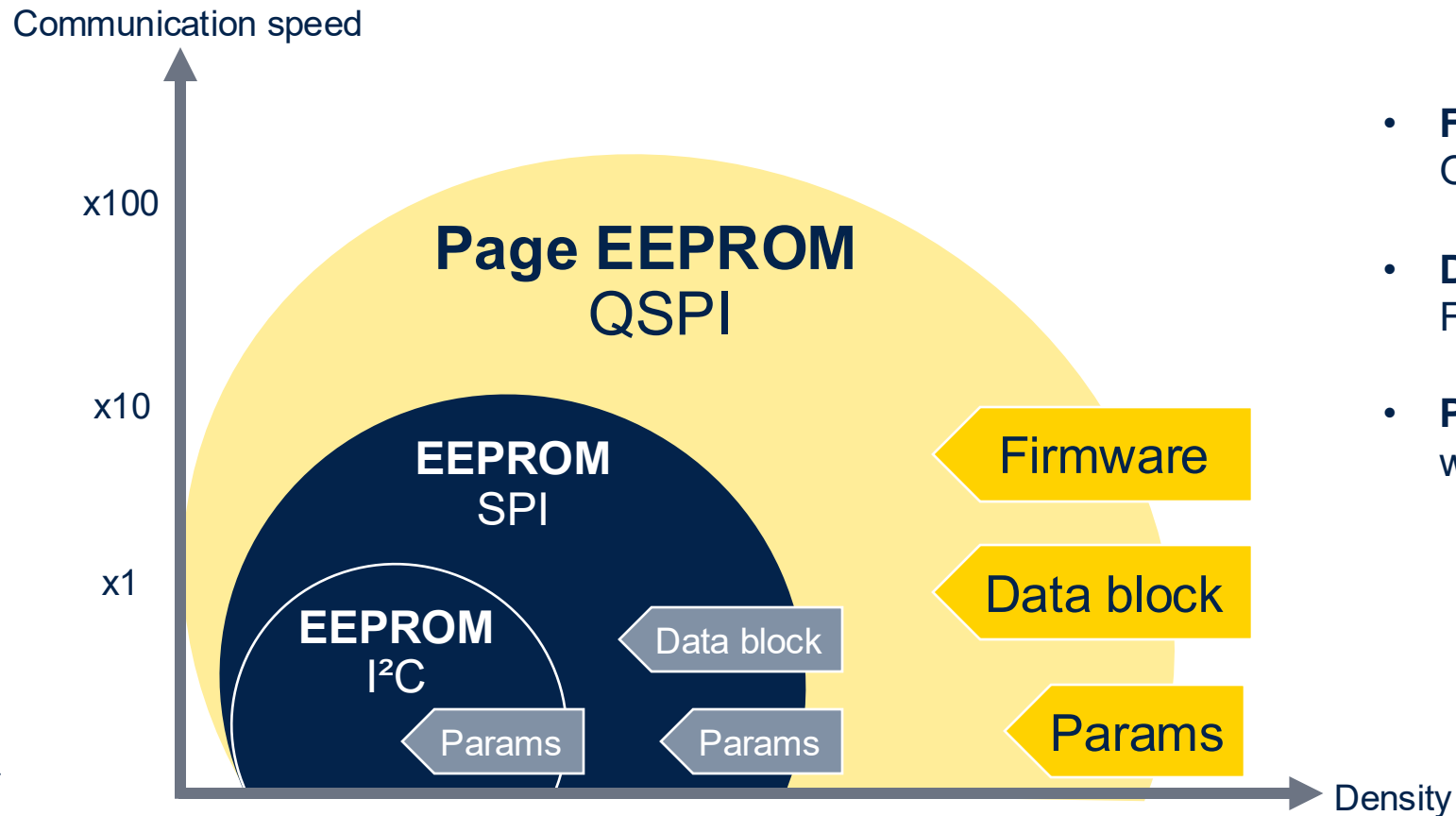


Bare die



Page EEPROM Functional perimeter

High density and performance for efficient management of high-volume, mixed data



- **Firmware** upload/download for OTA* and application startup
- **Data blocks** and calibration tables
Fast access with quad read
- **Parameters** easy to manage with byte flexibility

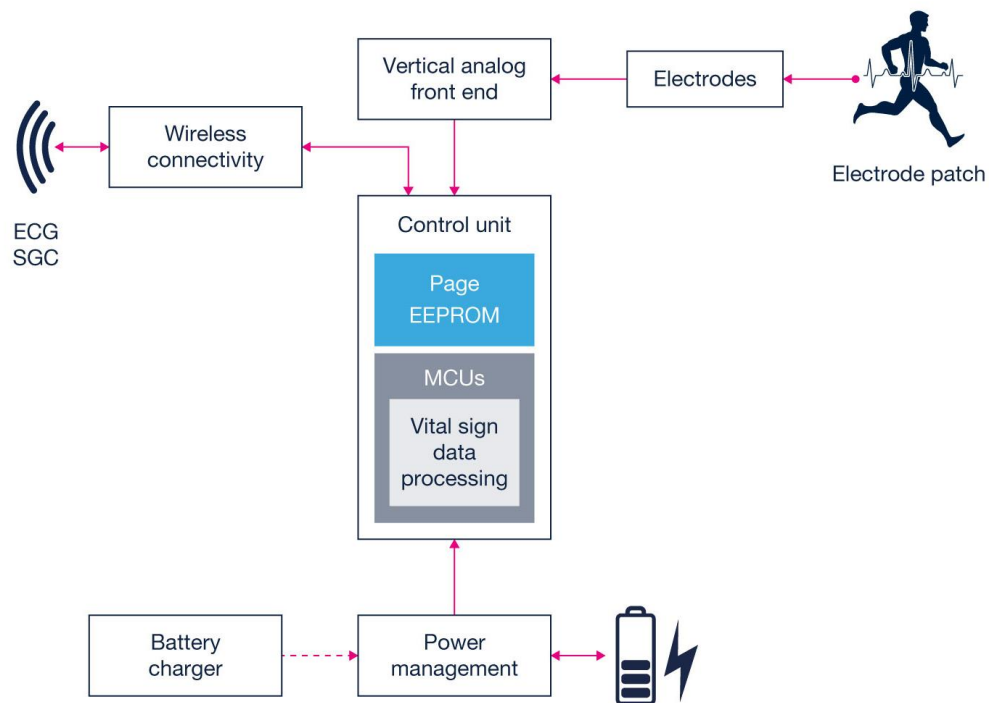


*Over the air



Page EEPROM Portable monitoring devices

How device makers can deliver more value



Features	What this means for end users
Reliable storage for calibration data	Maintain accurate measurements
Ultralow power	Extend battery lifetime
Long data retention (100 years)	Store long-term ECG and logs
ECC* for high data integrity	Protect patient data from errors

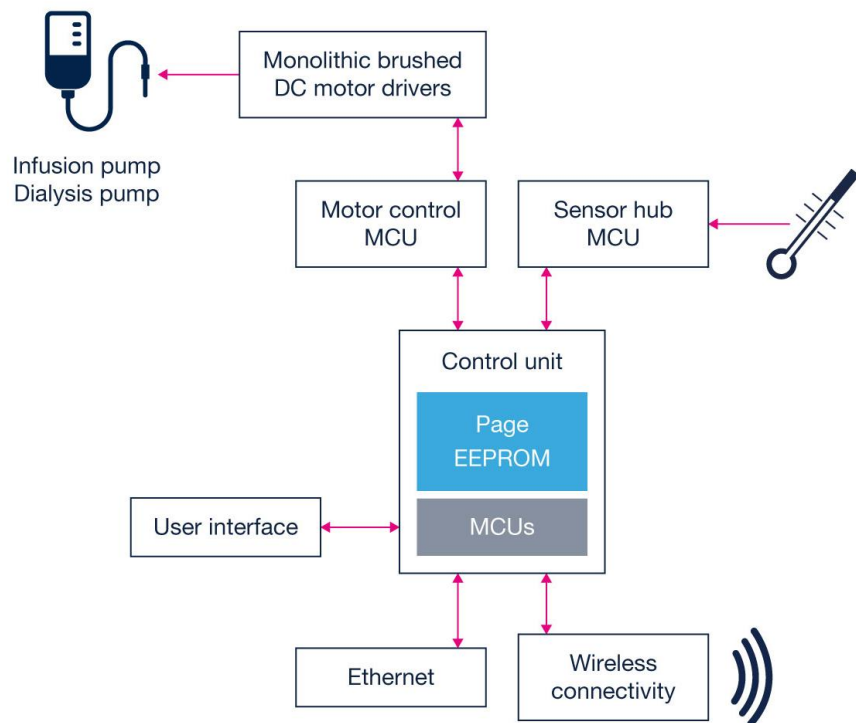


*Error code correction



Page EEPROM Therapy management

How device makers can elevate care



Features

Safety status flags

Block-level write protection

Fast page write/erase times

What this means for end users

Increase data reliability

Protect critical device settings

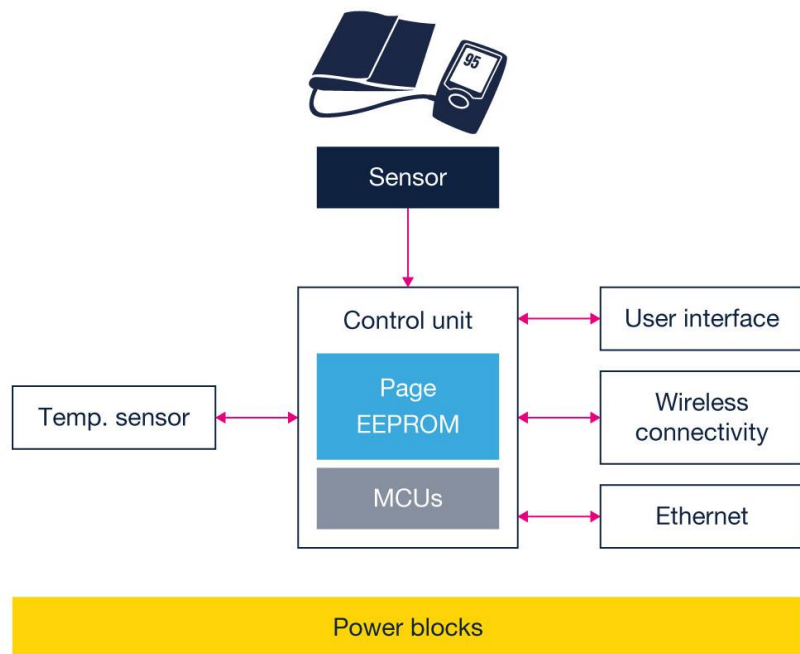
Speed up firmware updates





Page EEPROM Portable diagnostics

How device makers can offer smart, personalized care



Portable diagnostic devices,
handheld analyzers

Features

Up to 32 Mbit for
logs & tables

High-speed 80 MHz QSPI

500k cycles endurance
per page

What this means for end users

Store test data
and profiles

Accelerate boot and
test access

Support frequent data
logging

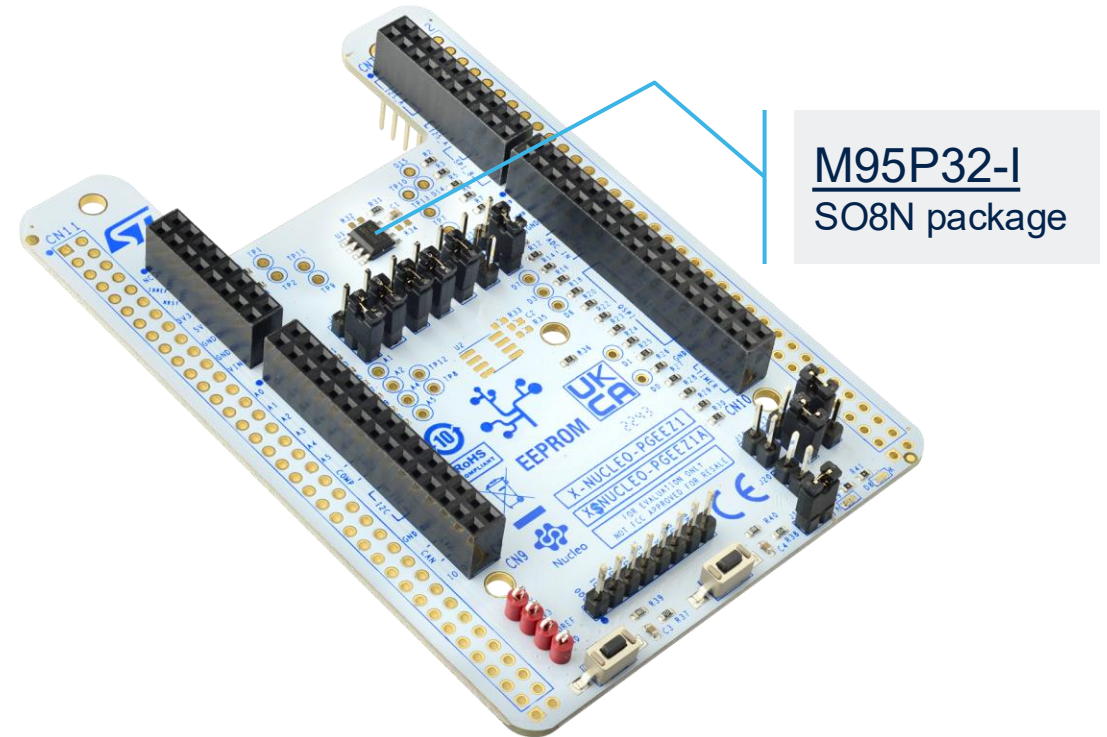


Page EEPROM development tool

STM32 Nucleo expansion board X-NUCLEO-PGEEZ1

- Based on M95P32-I in SO-8 package
- Compatible with 64-or 144-pin Nucleo board
- Possibility to add a second memory
- Documentation & drivers available

[Read more](#)

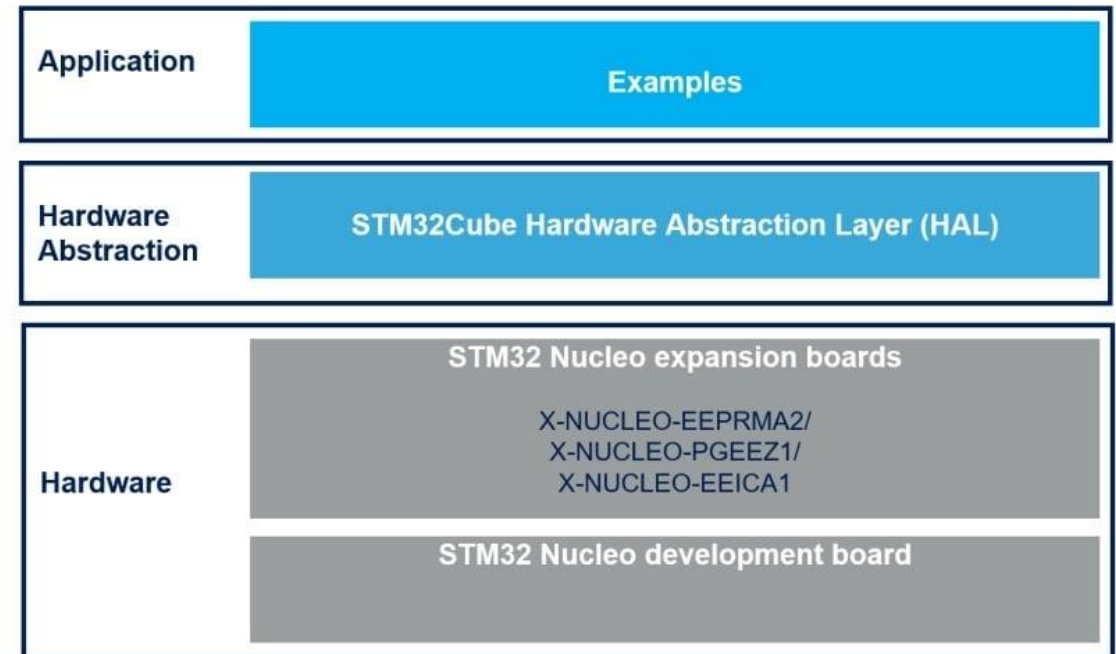


Page EEPROM development tool – Software package

STM32 software expansion X-CUBE-EEPRMA1

- STM32 drivers and high-level APIs for M95P32-I Page EEPROM (SPI)
- Ready-to-run example projects with X-NUCLEO-PGEEZ1 on STM32 Nucleo
- Includes STM32CubeMX / STM32CubeIDE projects and documentation

[Read more](#)





Page EEPROM takeaways

Fast, compact 32-Mbit SPI memory with quad-SPI up to 320 Mbit/s

High-reliability storage with built-in ECC and 500k endurance

Ultralow power nonvolatile memory for always-on devices



Our technology starts with You



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