

Page EEPROM: How it enhances applications

Page EEPROM introduction

Product features



80 MHz Quad-SPI interface



2.3 ms auto-erase and program



4 ms ultrafast block erase



500k write cycles on full temperature range



Below 3 mA ultralow power operations



Error correction code



Safety flags

A unique product

The power **efficiency** and **durability** of an EEPROM with the **capacity** and **speed** of a Flash memory.

Memory densities

8 Mbit 16 Mbit 32 Mbit *64 Mbit









Page EEPROM in diverse segments







Wearables



Smart home



Asset tracking



Healthcare



Smart industries



Smart cities



Metering

Application benefits

Maximize battery life

Conserve power for what matters most

Increase accuracy

Data monitoring made easy

Lower FOTA downtime

Fast firmware up/download



Page EEPROM in servers

Ensure safe operations



Benefits

- Preserved boot code & data integrity
- Fast firmware update
- High tracking rate of events, and logs

Examples

Al servers, banking servers, cloud, etc.

Page EEPROM in wearables

Collect more data without draining the battery



Use cases

- Firmware storage
- Display image storage
- Fitness, health & location monitoring
- Fit with tiny batteries

Benefits

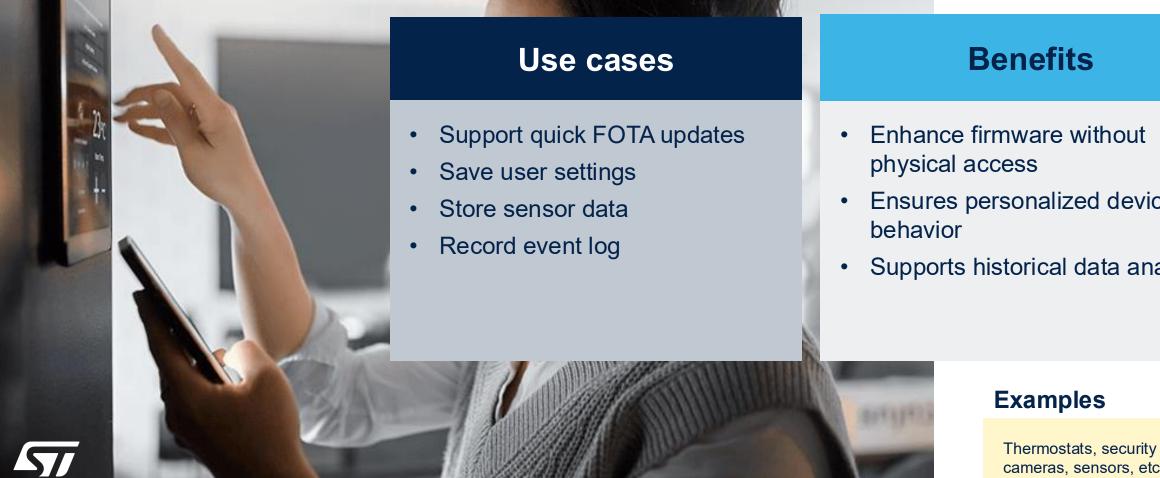
- Reliable boot and remote upgrade
- High-monitoring rate
- Batteries last longer

Examples

Smartwatch, VR headset, E-cigarette, Earbuds, etc.

Page EEPROM in smart homes

Enable efficient operation and data storage

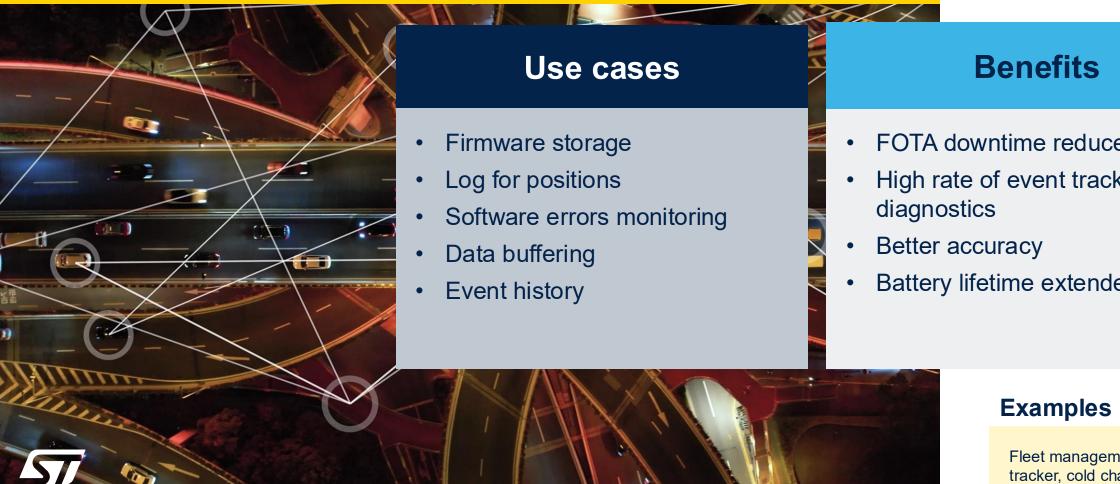


- Ensures personalized device
- Supports historical data analysis

cameras, sensors, etc.

Page EEPROM in asset tracking

Boost accuracy in asset tracking devices



- **FOTA** downtime reduced
- High rate of event tracking and
- Battery lifetime extended

Fleet management, GPS tracker, cold chain, etc.

Page EEPROM in healthcare

Store more data to improve healthcare



arthroscope, glucometer, etc.

Page EEPROM in smart industries

Combine data integrity and intensive monitoring

Use cases Store embedded firmware Store machine status, operational logs Record fault conditions Save device-specific calibration parameters

Benefits

- Enables reliable device startup
- Ensures continuous data collection
- Maintains accurate device performance

Examples

BMS, solar tracker, servers, etc.

Page EEPROM in metering

Accurate measurement and invoicing



Use cases

- Store meter firmware
- Store usage data locally
- Save calibration & tariff settings
- Record faults and power events

Benefits

- Reliable remote upgrades
- Continuous data collection
- Enhanced diagnostics
- Historical records maintained during network failures

Examples

E-meters, water, gas meters, etc.

Page EEPROM How it enhances applications

Shape your application with one memory solution that combines benefits from both EEPROM & Serial Nor Flash

Efficient and robust as an EEPROM

with the speed & the capacity of a Flash

Replace EEPROM and NOR Flash, reducing BOM complexity

Mix firmware and data monitoring in one and unique product

Boost the battery life of the application

Plug & play: Flash and EEPROM pin to pin compatible (SO8N & DFN8).

Easy integration: Opcodes compatible with Flash and EEPROM



Our technology starts with You



Find out more at st.com/Page-EEPROM



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