

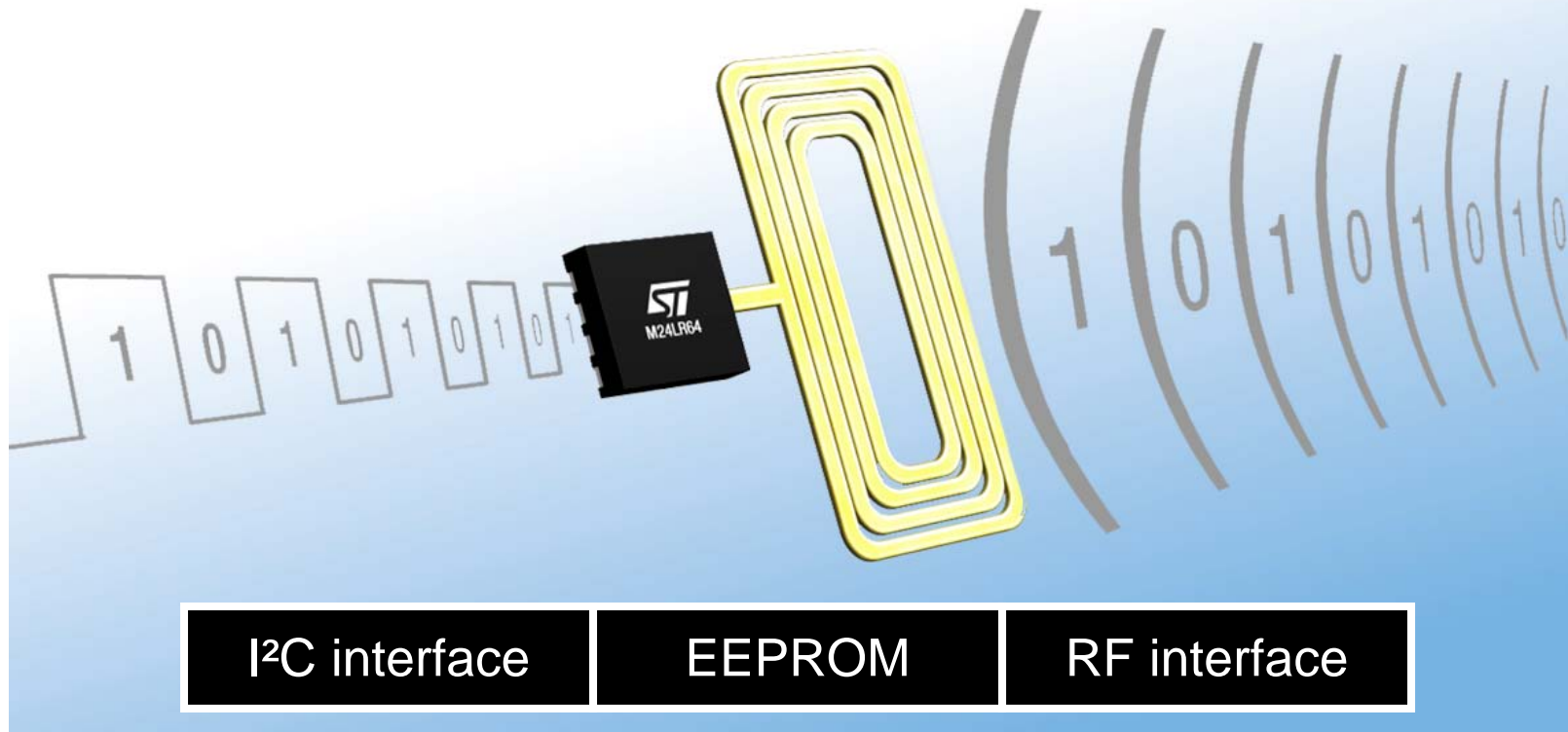


Dual Interface EEPROM

Overview

Dual Interface EEPROM

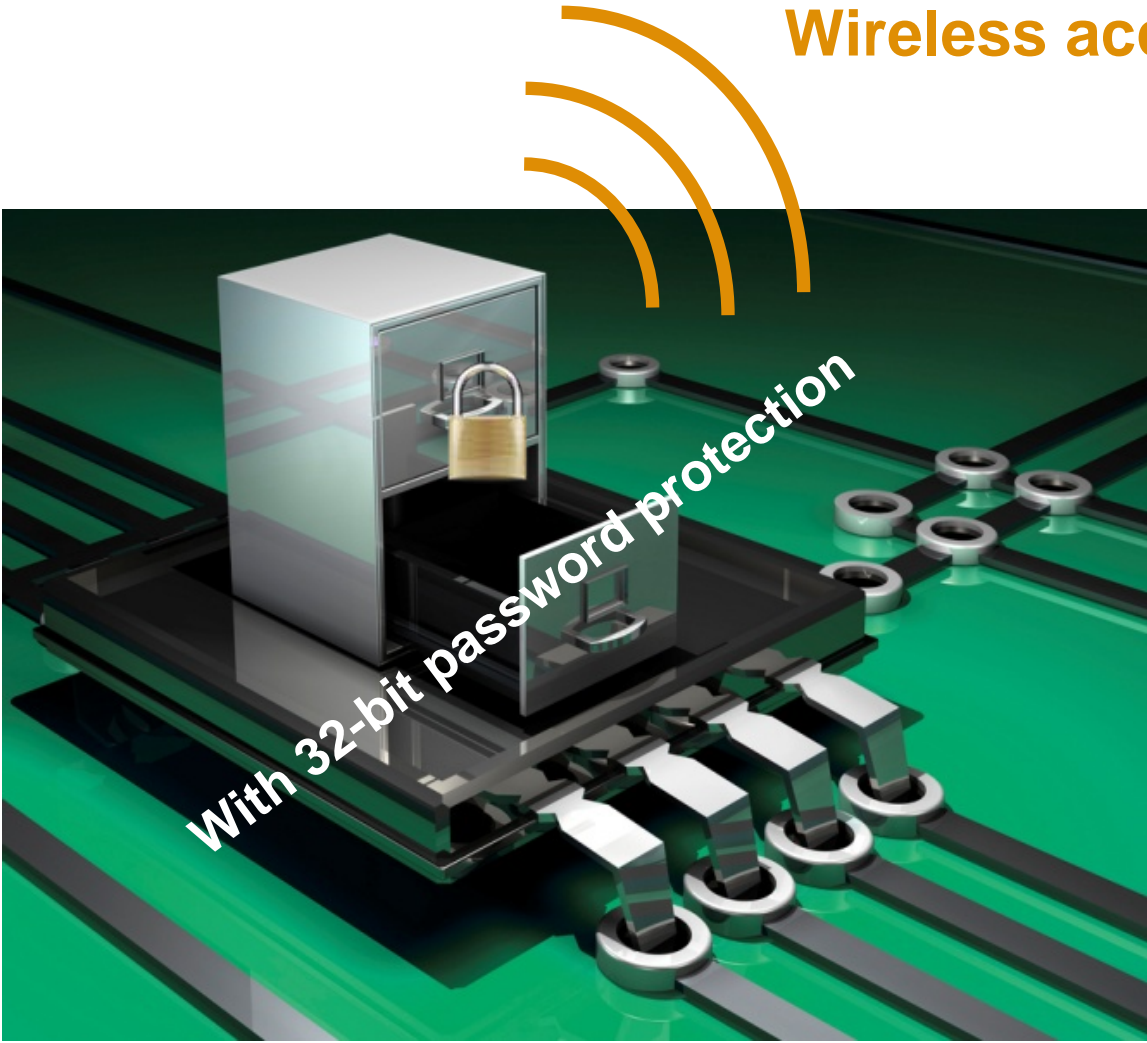
Two worlds connected



New perspectives for Data Management



- Operating data
- User settings
- Traceability information
- Application data
- Event log
- Identification data



■ Flexible

- Wireless read-write
- Read-write from the inside of your application (I²C)
- Byte granularity
- 64 sectors of 1k-bit each with 32-bit password protection



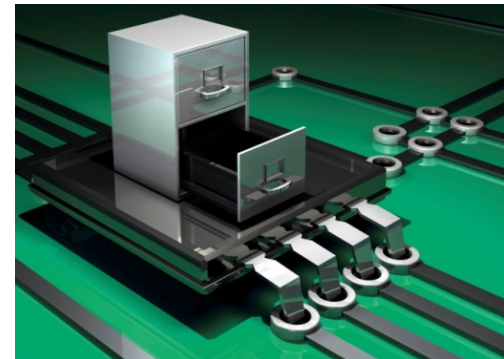
■ Green

- Zero on-board power RF interface
- Low voltage 1.8V-5.5V



■ Reliable and Standard

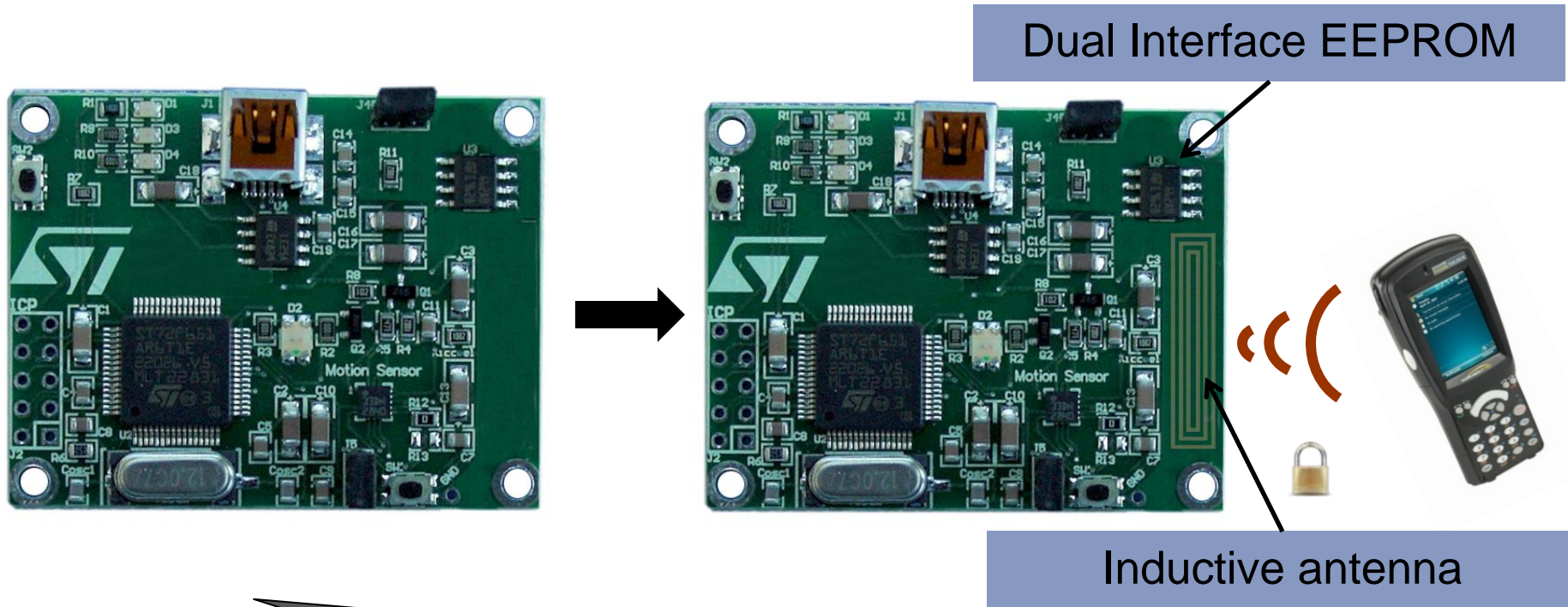
- 40-year data retention
- 1 Million erase write cycles
- Standard I²C bus
- Standard ISO15693 RF interface



How it works

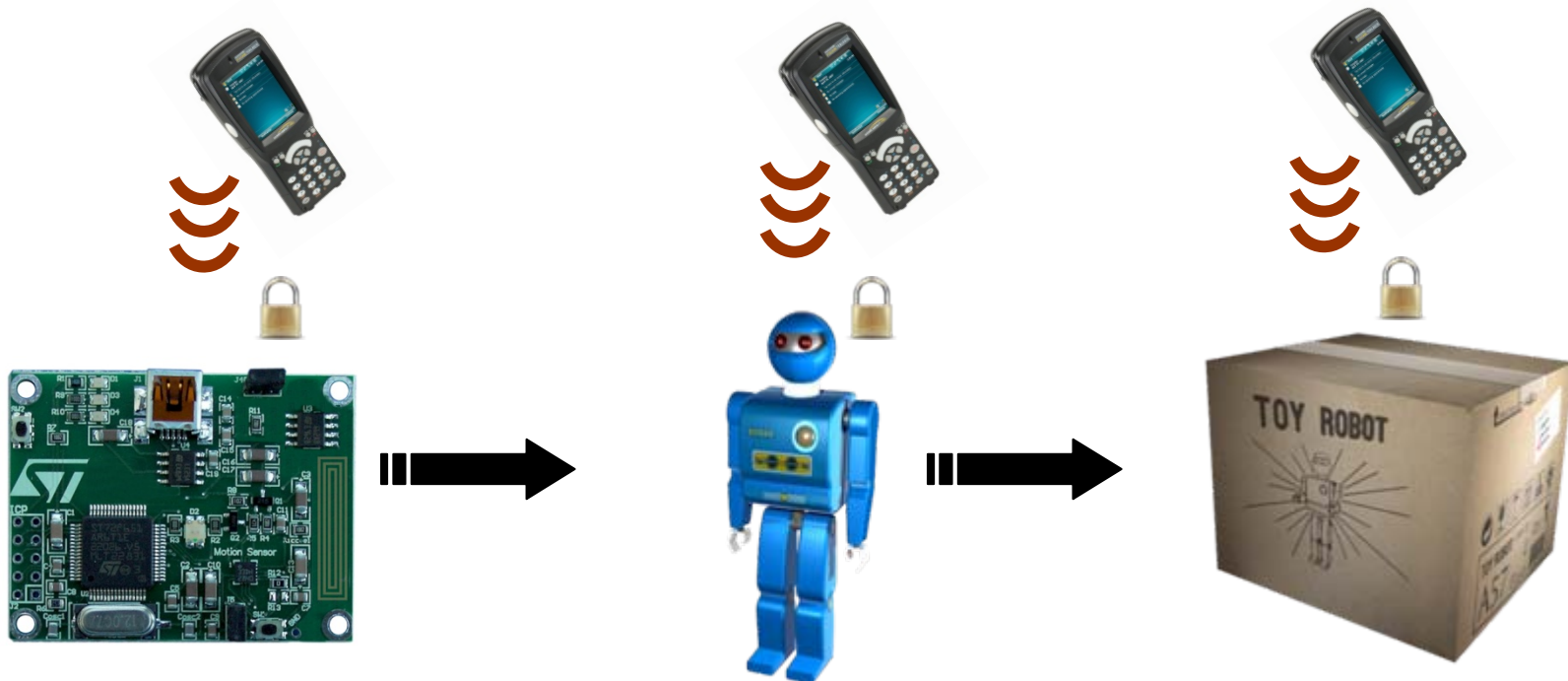


- Based on Passive RFID technology
 - Just add a 13.56 MHz inductive antenna onto your PCB



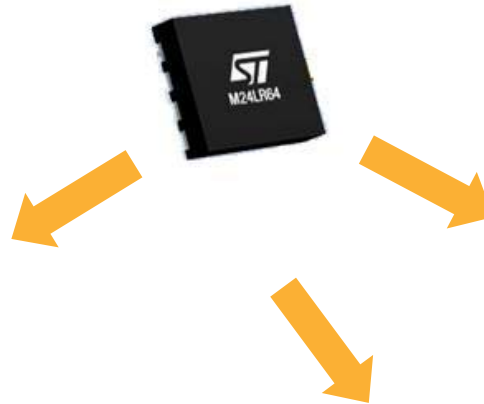
No battery needed to operate the dual interface EEPROM in RF mode

- Remotely program and update your application ...
...during the entire product lifetime
- ➔ During manufacturing, in warehouse, when your product is operating, during maintenance, with after sales servicing



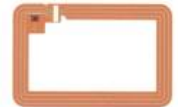
Industrial Medical Metering Factory automation

- Calibration
- Parameter update
- Diagnostics
- Maintenance
- Asset tracking
- Activation



RFID

- Data loggers
- Identification
- Traceability
- Sensors/cold chain
- Large RFID memory



Peripherals Communication Consumer

- Parameter update
- Diagnostics
- Maintenance
- Traceability
- Asset tracking
- Activation



M24LR64-R architecture overview

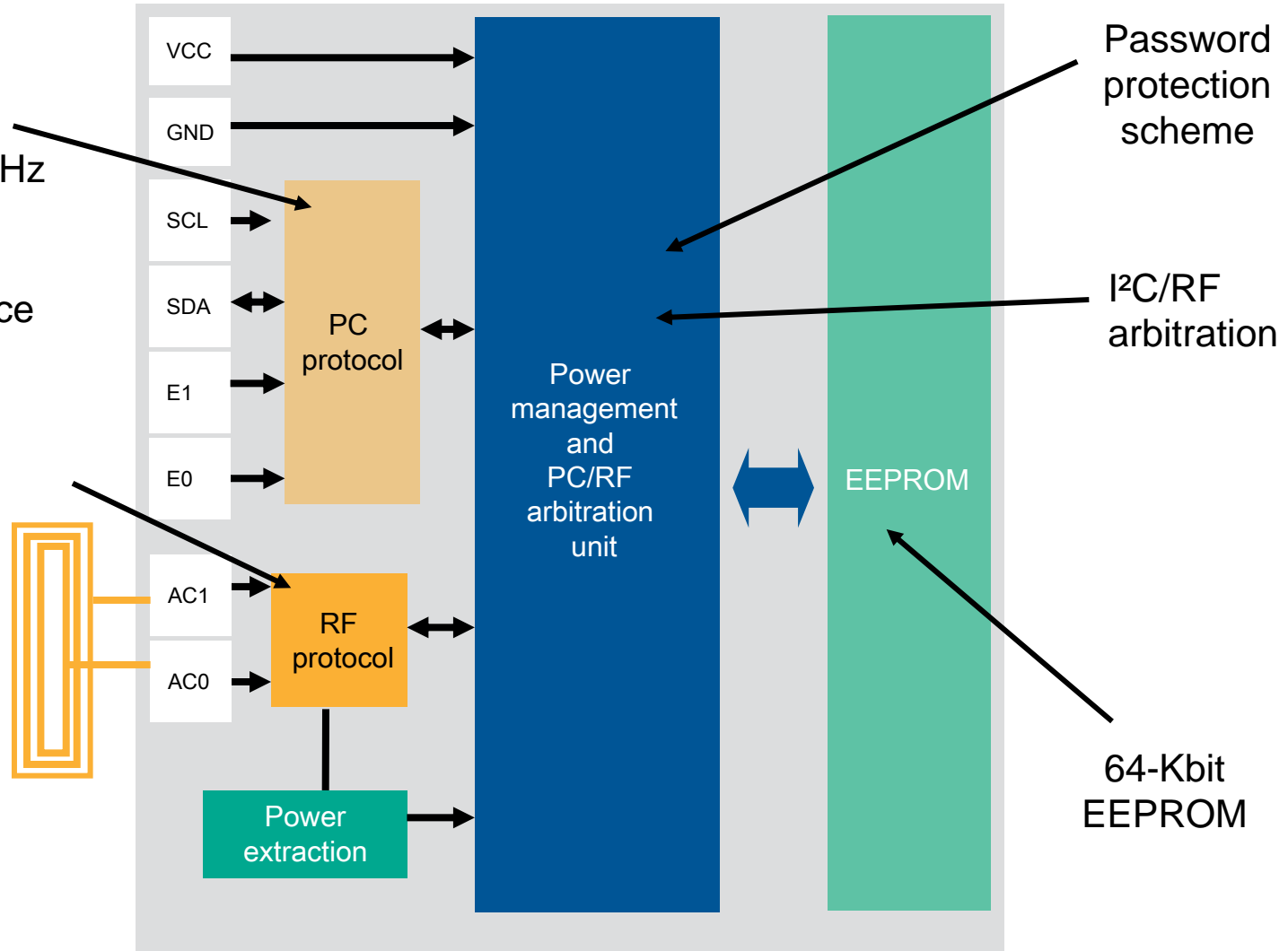


I²C interface

- industry standard
- 1.8v to 5.5V, 400kHz

ISO 15693 RF interface

- industry standard
- passive RFID technology
- high-speed mode (up to 53 Kbit/s)



Innovation based on 2 industry-standard protocols

**Enables cost reduction and flexibility at all product
life steps**

www.st.com/dualeeprom