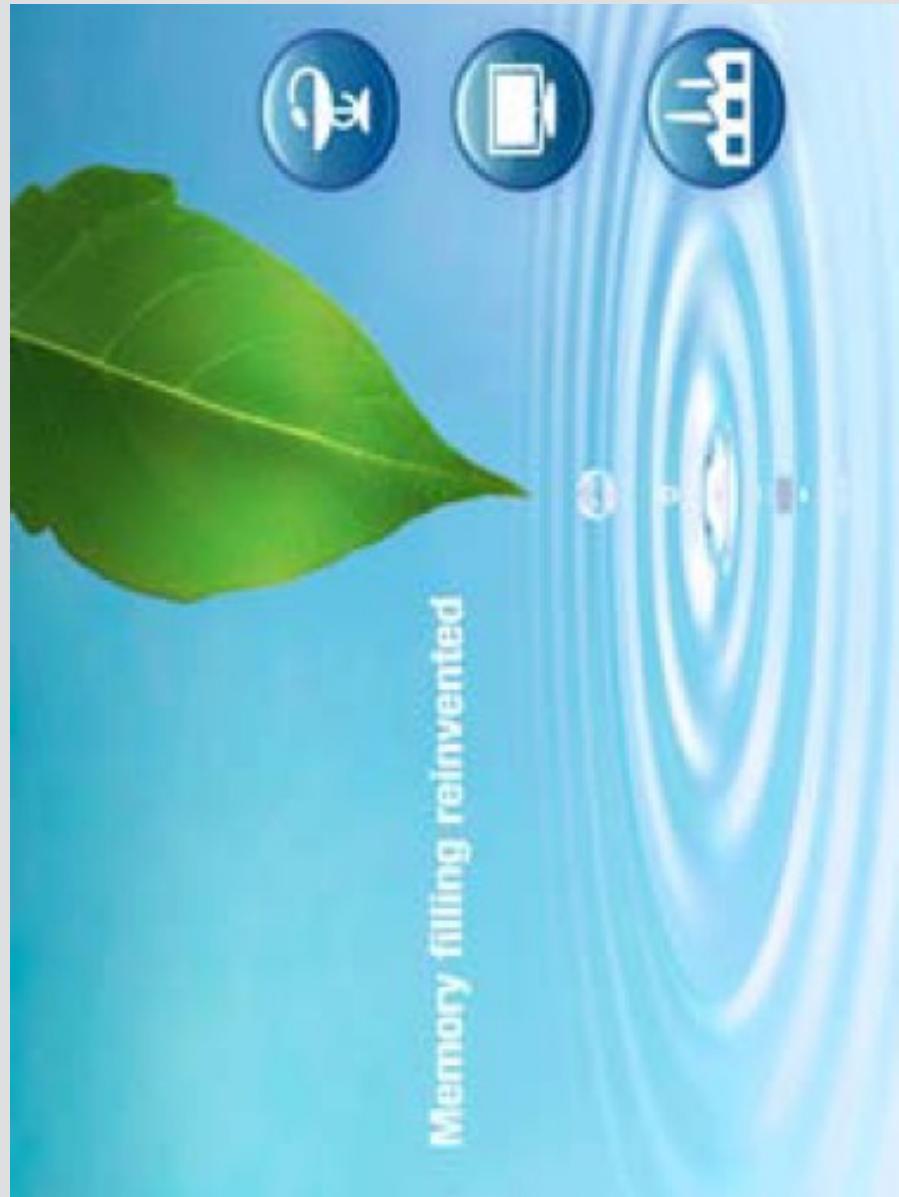


Memorie + RFID



Memorie + RFID



- Add a 13.56 MHz inductive antenna onto your PCB

2 worlds now connected

EEPROM



I²C interface

(+ application Power Supply)

RF interface

(even if the M24LR64 is not
powered by the application)

EO	1	VCC
AC0	2	E1
AC1	3	SCL
VSS	4	SDA
	5	

Memorie + RFID



- Industry standard interfaces : I²C and ISO/IEC 15693
- 64-Kbit EEPROM user memory
- 64-bit unique identifier (UID, read-only)
- Write protection in I²C access with 32-bit password
- Write/read protection in RF access with 32-bit password
- Application family identifier (AFI)
- Data storage format identifier (DSFID)
- 13.56 MHz carrier frequency

Memorie + RFID



- **Standard I²C interface to the application master**

- Simple, standard and cost-effective
- Compatible with most current designs

- **Standard ISO 15693 interface to the outside RF reader**

- Simple, standard and cost-effective solution
- Readers and various antenna form factor available from third-party companies
- Passive RF technology: no battery, any time access even when application turned-off

=> **Simple implementation**

- 13.56 MHz inductive antenna to be tuned around the M24LR64 (offering an internal tuning capacitor).
- M24LR64 is the only component, no extra component needed.

Memorie + RFID



- EEPROM memory
 - 64Kbit EEPROM memory
 - 64-bit factory programmed/locked unique identifier
 - 40 years data retention
 - 1 million Write cycles (I^2C), 100k Write cycles (RF)
 - Password protection for each Sector.
- Two channels of access
 - I^2C bus: 400 kHz, 1.8 V to 5.5 V
 - RF: ISO 15693 (Read data at 26.48 kbit/s)
- Power supply is sourced by
 - Either by RF waves (when Vcc pin is floating or grounded)
 - Or I^2C power supply (Vcc pin connected to 1.8V/5.5V)

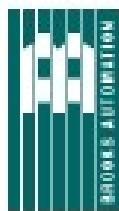
Memorie + RFID



FEIG
ELECTRONIC

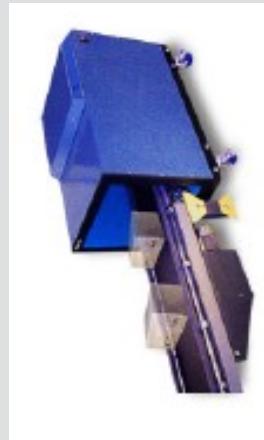
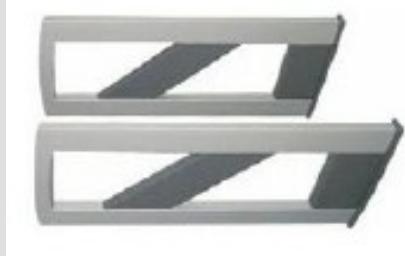
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One multi-region stock



**Personalization
inventory**

Memorie + RFID



M24 LR 64

Serial interface type

RF interface type

Memory size

M24 : I2C interface
M95 : SPI interface

in user K bits

SR: Short range / 13.56MHz - ISO 14443-B
LR: Long range / 13.56MHz - ISO 15693
XR: eXtended range / UHF - ePC