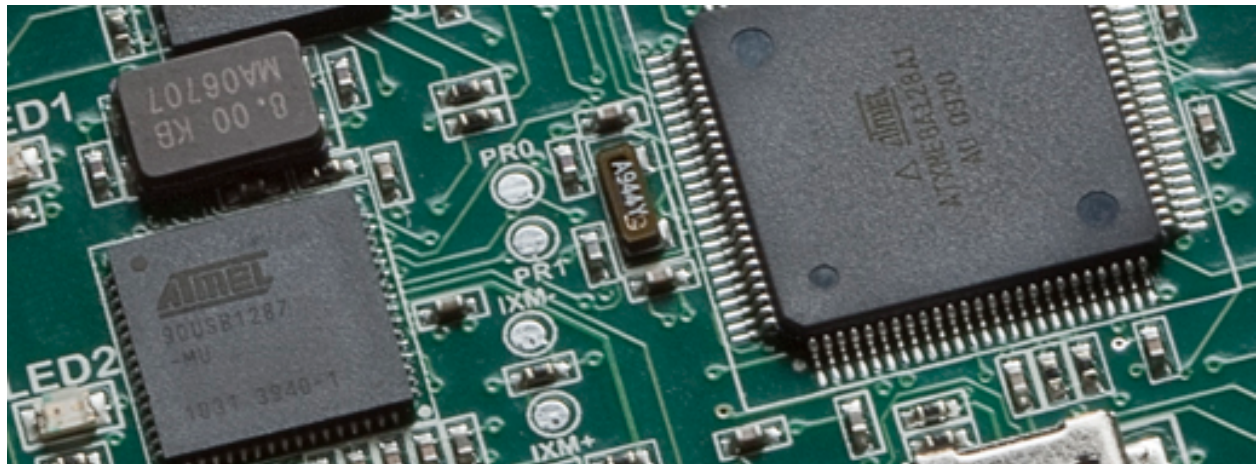


RF Identification



Key Features

- **Standards based** — You can rely on the fact that Atmel complies to industry-specific standards, such as ISO 11784/85 (FDX-B and FDX-A) for agriculture and ISO 14443 for public transportation applications.
- **Flexible modulation coding options** — The chips can be easily configured to suit a broad array of modulation schemes: FSK, PSK, ASK, Manchester, Bi-phase, NRZ direct coding, and more.
- **Strong security** — Atmel transponders contain a unique identification number (UID) with traceability code. Both transponders and readers offer single or mutual authentication for read and/or write copy protection and encryption for data transmissions.
- **Low power design** — All RFIDs ICs are designed to "sleep" after scans to conserve power and extend battery life. The low power consumption extends the read/write operating distance compared to competitive products.
- **Anti-collision features** — Atmel ICs can handle several transponders simultaneously to increase functionality.
- **Development support** — Internal test structures make verification and standard compliance testing convenient and time-efficient, even for designers with little prior RFID experience. Self-contained demonstration kits include an LCD and control buttons so you can interact with the RFID system. Source code, building blocks, and reference designs let you quickly evaluate and prototype complete system-level designs.

RF Identification Devices

Device Family	Summary Benefit	Applications	Technologies	Key Parameters
100-150 kHz OTP	Simplifies the production process and accelerates time to market.	Contactless access control systems used in hotel room, office, parking lot applications as well as customer loyalty and membership cards.		OTP

100-150 kHz
Read/Write

Integrates components to reduce your bill of materials

Contactless access control systems used in hotel room, office, parking lot applications as well as customer loyalty and membership cards.

On-chip EEPROM

125 kHz
Transponder

A range of packaging options, data rates, and memory sizes and security levels

RFID readers

125 kHz

Active RFID

Integrated programmable receiver channel that offers extremely low current consumption in active listening mode, especially suited for wake-up applications

Auditing and tracking systems.

Localization and security systems

RFID

BCDMOS antenna driver IC

125kHz wake up

ASK and FSK modulation

20-kbaud data rate in Manchester mode

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