

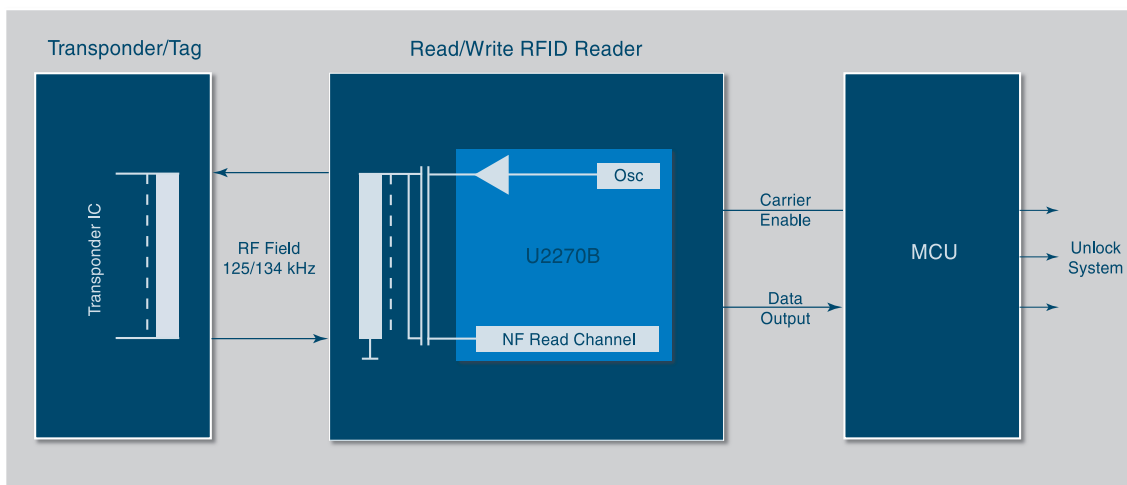


➤ Read/Write RFID Reader IC U2270B

The reader IC U2270B operates as a bidirectional interface between the transponder and the microcontroller. It amplifies the transponder signal and provides the signal to the microcontroller for decoding. The input characteristics of the U2270B are suitable for Manchester and Bi-phase-modulated transponders with a data rate between 2 and 5 kBaud at 125/134 kHz operating frequency. The reader system based on the U2270B supplies the energy for transponders via the magnetic field. The IC fully supports Atmel's write method, which requires switching the field on and off within certain time intervals.

Applications

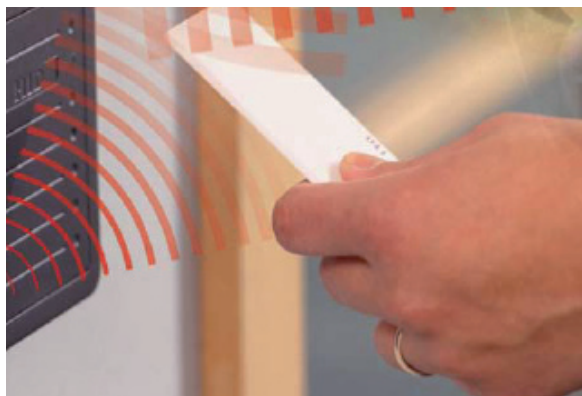
- Car Immobilizers
- Animal Identification
- Access Control
- Process Control
- Further Industrial Applications





Features

- Carrier Frequency f_{osc} 100 kHz – 150 kHz
- Typical Data Rate up to 5 kbaud at 125 kHz
- Suitable for Manchester and Bi-phase Modulation
- Power Supply from the Car Battery or from 5-V Regulated Voltage
- Tuning Capability
- Microcontroller-compatible Interface
- Low Power Consumption in Standby Mode
- Power-supply Output for Microcontroller
- Package: SO16



Support

- Standalone LF demo kit ATA2270-EK1 for Reader and Transponder ICs
- PC-based LF Demo Kit ATAK2270 for Reader and Transponder ICs
- PC-based LF Demo Kit TMEB8704 for Reader and Transponder ICs



Ordering Information

Extended Part Number	Package	Remarks
U2270B-MFPY	SSO16	Tube, Pb-free
U2270B-MFPG3Y	SSO16	Taped and Reeled, Pb-free
ATA2270-EK1	–	Standalone LF Demo Kit
ATAK2270	–	PC-based LF Demo Kit
TMEB8704	–	PC-based LF Demo Kit
ATAK2270UG	–	Upgrade Kit: TMEB8704 to ATAK2270

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