
LF-RFID Kit Comparison Chart

1. Description

Atmel® offers 3 different types of development and evaluation kits.

The next-generation stand-alone kit ATA2270-EK1 is operated via buttons and a joystick on the PCB. Display and beeper are also available.

The ATA2270-EK1 is an evaluation kit that supports a limited number of modes in stand-alone mode. Support during the entire development phase is provided by the PC interface and the application software. Both tools enable to control the tag configuration. This kit is AVR® ATmega128-based and provides all necessary source and object codes. The CD-ROM also includes layout data in Gerber format. Code and layout data enable the quick and easy design of individual RFID readers. An API (advanced programming interface) allows to control the kit by a user written software. Registered kit users will have access to an Atmel FTP server for firmware und software upgrades.

The mature kits TMEB8704 and ATAK2270 are solely PC-based and come along with PC software. These two kits only differ in the type of LF RFID tags supported. The table on the next page shows which kit supports which tags. An upgrade from TMEB8704 to ATAK2270 is also available (ATAB2270). Its PC interface allows to control the tag modes. These 3 kit are no longer supported and are just mentioned here for reference purposes.



LF-RFID Kit Comparison Chart

Application Note



2. LF-RFID Kit Comparison Chart - Table

	TMEB8704	ATAK2270	ATA2270-EK1
General			
Development kit	x	x	x
Evaluation kit			x
PC controlled	x	x	x
PC software	x	x	x
Serial interface (with USB converter option)	x	x	x
USB interface			(3)
LCD display			x
Keys and joystick			x
Buzzer			x
Upgrade kit to ATAK2270	ATAK2270UG		
Kits Content			
Basis and interface board	x	x	x
Reader antenna coil	x	x	x
Power supply 120V to 240V	x	x	x
Serial cable	x	x	x
USB serial dongle			x
USB cable			(3)
DC supply cable	x	x	
CD-ROM software and documentation	x	x	x
Supported RFID IC Devices			
T5551/TK5551	x	x	x
e5530/TK5530	x	x	x
T5552/TK5552	x	x	
T5554	x	x	x ⁽¹⁾
ATA5558			x
T5557 compatible	x	x	x ⁽²⁾
T5557 extended		x	x
e5561/TK5561	x		
ATA5567 compatible	x	x	x ⁽²⁾
ATA5567 extended		x	x
ATA5570		x	x
ATA5577M1 and ATA5577M2		x	x
ATA5575M1 and ATA5575M2			x

- Notes:
1. To use the T5554 select tag type T5551 in the software.
 2. This mode is only supported in the PC application software. All tag modes are programmable in this tool.
 3. Planned
 4. Several suppliers

2. LF-RFID Kit Comparison Chart - Table (Continued)

	TMEB8704	ATAK2270	ATA2270-EK1
Tag, Transponder and IC Samples Contained in Kit			
ATA5577 ISO card ⁽⁴⁾			x
ATA5577 coin ⁽⁴⁾			x
ATA5577 fob ⁽⁴⁾			x
ATA5577 ISO11784/85 tag ⁽⁴⁾			x
ATA5575 ISO card ⁽⁴⁾			x
ATA5558 ISO card ⁽⁴⁾			x
ATA5558 coin ⁽⁴⁾			x
U2270-MFPG3Y	3	3	3
TK5551M-PP	3	3	3
ATA5577M1330-PAE		3	3
ATAB5570 board			1
TK5561A-PP	3		
U3280M-NFPG3	3		
Tag test coil	1	1	1
Supported Reader-RFID IC Devices			
U2270B	x	x	x
Documentation on CD-ROM			
User guide	x	x	x
Using ISO 11784/11785 application note		x	x
AVR source code			x
Gerber data			x

- Notes:
1. To use the T5554 select tag type T5551 in the software.
 2. This mode is only supported in the PC application software. All tag modes are programmable in this tool.
 3. Planned
 4. Several suppliers

3. Revision History

Please note that the following page numbers referred to in this section refer to the specific revision mentioned, not to this document.

Revision No.	History
4980C-RFID-11/09	<ul style="list-style-type: none"> • Section 1 “Description” on page 1 changed • Section 2 “LF-RFID Kit Comparison Chart - Table” on pages 2 to 3 changed
4980B-RFID-12/08	<ul style="list-style-type: none"> • Section 1 “Description” on page 1 changed • Section 2 “LF-RFID Kit Comparison Chart - Table” on pages 2 to 3 changed



Headquarters

Atmel Corporation
2325 Orchard Parkway
San Jose, CA 95131
USA
Tel: 1(408) 441-0311
Fax: 1(408) 487-2600

International

Atmel Asia
Unit 1-5 & 16, 19/F
BEA Tower, Millennium City 5
418 Kwun Tong Road
Kwun Tong, Kowloon
Hong Kong
Tel: (852) 2245-6100
Fax: (852) 2722-1369

Atmel Europe
Le Krebs
8, Rue Jean-Pierre Timbaud
BP 309
78054
Saint-Quentin-en-Yvelines Cedex
France
Tel: (33) 1-30-60-70-00
Fax: (33) 1-30-60-71-11

Atmel Japan
9F, Tonetsu Shinkawa Bldg.
1-24-8 Shinkawa
Chuo-ku, Tokyo 104-0033
Japan
Tel: (81) 3-3523-3551
Fax: (81) 3-3523-7581

Product Contact

Web Site
www.atmel.com

Technical Support
rfid@atmel.com

Sales Contact
www.atmel.com/contacts

Literature Requests
www.atmel.com/literature

Disclaimer: The information in this document is provided in connection with Atmel products. No license, express or implied, by estoppel or otherwise, to any intellectual property right is granted by this document or in connection with the sale of Atmel products. **EXCEPT AS SET FORTH IN ATMEL'S TERMS AND CONDITIONS OF SALE LOCATED ON ATMEL'S WEB SITE, ATMEL ASSUMES NO LIABILITY WHATSOEVER AND DISCLAIMS ANY EXPRESS, IMPLIED OR STATUTORY WARRANTY RELATING TO ITS PRODUCTS INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. IN NO EVENT SHALL ATMEL BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE, SPECIAL OR INCIDENTAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFITS, BUSINESS INTERRUPTION, OR LOSS OF INFORMATION) ARISING OUT OF THE USE OR INABILITY TO USE THIS DOCUMENT, EVEN IF ATMEL HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.** Atmel makes no representations or warranties with respect to the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Atmel does not make any commitment to update the information contained herein. Unless specifically provided otherwise, Atmel products are not suitable for, and shall not be used in, automotive applications. Atmel's products are not intended, authorized, or warranted for use as components in applications intended to support or sustain life.

© 2009 Atmel Corporation. All rights reserved. Atmel®, Atmel logo and combinations thereof, AVR® and others are registered trademarks or trademarks of Atmel Corporation or its subsidiaries. Other terms and product names may be trademarks of others.