LF-RFID Kit Comparison Chart

1. Description

Atmel® offers 3 different types of development and evaluation kits. Two of them, TMEB8704 and ATAK2270, are solely PC-based only and come bundled with PC software. These two kits differ in the type of LF-RFID tags supported. The following table shows which tags are supported. An upgrade kit from TMEB8704 to ATAK2270 is also available. The PC interface allows the control of tag modes.

The third kit, ATA2270-EK1, is a new generation standalone kit. The kit is operated using buttons and a joystick on the PCB. A display and a beeper are also available. The ATA2270-EK is an evaluation kit and supports a limited number of modes in standalone mode. Support for complete development efforts is provided using the PC interface and application software. This allows complete control over tag configuration. This kit is AVR® MEGA128-based and comes with all source and object code. The layout data in 'Gerber' format is also included on CD-ROM. The code and layout data supports quick and easy designing of individual RFID readers.

2. LF-RFID Kit Comparison Chart - Table

	TMEB8704	ATAK2270	ATA2270-EK
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 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

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-EK
Tag, Transponder and IC Samples Contained in Kit			
ATA5577 ISO card[4]			Yes
ATA5577 coin[4]			Yes
ATA5577 fob[4]			Yes
ATA5577 ISO11784/85 tag[4]			Yes
ATA5558 ISO card			Yes
ATA5558 coin			Yes
U2270-MFPG3Y	3	3	3
TK5551M-PP	3	3	3
ATA5577M1330-PAE		3	3
ATA556711-TAQY	3	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
4980B-RFID-12/08	• 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