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## LF-RFID Kit Comparison Chart

### 1. Description

Atmel® offers 3 different types of development and evaluation kits. Two of them, TMEB8704 and ATAK2270, are PC based and come with PC software. The difference between these two kits is 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 of kit and is stand-alone. Buttons and joystick on the PCB are used to operate the kit. A display and a beeper complete it. The ATA2270-EK is an evaluation kit and supports a limited number of modes. This kit is AVR® MEGA128 based and comes with all the source and object code. The layout data in 'Gerber' format is also included on CD-ROM. The code and layout data support quick and easy designing of individual RFID readers.



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## Application Note





## 2. LF-RFID Kit Comparison Chart - Table

	TMEB8704	ATAK2270	ATA2270-EK
<b>General</b>			
Development kit	x	x	
Evaluation kit			x
PC controlled	x	x	(4)
PC software	x	x	(4)
Serial interface	x	x	(4)
USB interface			(4)
LCD display			x
Keys and joystick			x
Buzzer			x
Upgrade kit to ATAK2270	ATAK2270UG		
<b>Kits Content</b>			
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	
USB cable			(4)
Power supply cable	x	x	
CD-ROM software and documentation	x	x	x
Atmel product CD	x	x	x
<b>Supported RFID IC Devices</b>			
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 (3)

- Notes:
1. To use the T5554 select tag type T5551 in the software.
  2. The ATA2270-EK1 can read/write data in this configuration but can not place tags into this mode. Also they must be configured so that they use the 5551 terminator.
  3. This requires the ordering of a separate ATAB5570 PCB.
  4. Planned.

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

	TMEB8704	ATAK2270	ATA2270-EK
<b>Tag, Transponder and IC Samples Contained in Kit</b>			
ATA5567 ISO card		1	1
ATA5567 coin		1	1
ATA5558 ISO card			on request
ATA5558 coin			on request
U2270-MFPG3Y	3	3	3
T5530HM-232-PP	3	3	3
TK5551M-PP	3	3	3
TK5552A-PP	3	3	
ATA556715-PAE	3	3	3
ATA556711-TAQY	3	3	3
TK5561A-PP	3		
U3280M-NFPG3	3		
Tag test coil	1	1	1
<b>Supported Reader-RFID IC Devices</b>			
U2270B	x	x	x
<b>Documentation on CD-ROM</b>			
User guide	x	x	x
Power amplifier appnote		x	x
Using ISO 11784/11785 appnote		x	x
AVR source code			x
Gerber data			x

- Notes:
1. To use the T5554 select tag type T5551 in the software.
  2. The ATA2270-EK1 can read/write data in this configuration but can not place tags into this mode. Also they must be configured so that they use the 5551 terminator.
  3. This requires the ordering of a separate ATAB5570 PCB.
  4. Planned.





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