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**Hardware tools for ATmegaS128**

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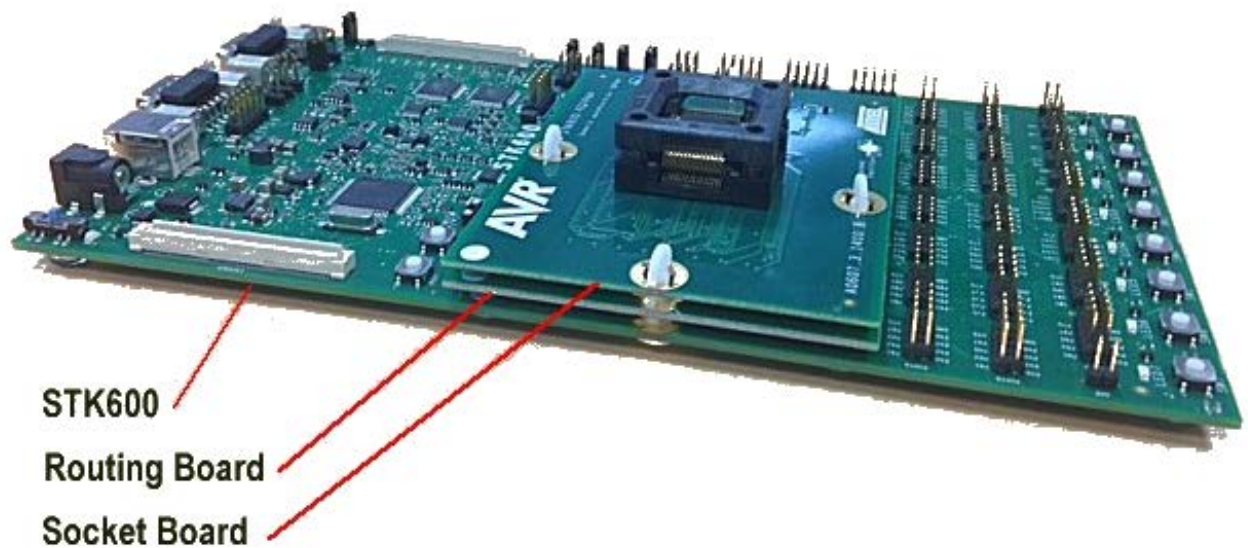
**Introduction**

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This document details the hardware needed to evaluate the ATmega128 in its industrial version (ATmega128A) or in its space version (ATmegaS128).

The evaluation kit for both versions ATmega128A and ATmegaS128 is composed of a sandwich of three boards as shown on the Figure 1 below:

- one STK600 board
- one routing board
- one socket board



*Figure 1 - Evaluation Kit*

There are two versions of the socket board. One dedicated to the industrial TQFP64 package (refer to Figure 1) and one dedicated to the space CQFP64 package (refer to Figure 2).

The industrial version implements a Zero Insertion Force socket while the space version implements an ATmegaS128 device directly soldered on the board.



Figure 2 - Space version of the socket Board

## 1 Industrial configuration: ATmega128A

The table below details the bill of materials for the industrial configuration.

Name	Description	Ordering Number	Comments
STK600	Main board	<a href="#">ATSTK600</a>	
STK600-RC064M-9	Routing board	<a href="#">ATSTK600-RC09</a>	
STK600-TQFP64	Socket Board	<a href="#">ATSTK600-SC02</a>	
ATmega128A	Device Sample in TQFP 64 package	<a href="#">ATmega128A-AU</a>	
JTAG ICE	Software Debugger Device	<a href="#">ATATMEL-ICE-BASIC</a>	Optional

## 2 Space configuration: ATmegaS128

The table below details the bill of materials for the space configuration.

Name	Description	Ordering Number	Comments
STK600	Main board	<a href="#">ATSTK600</a>	
STK600-RC064M-9	Routing board	<a href="#">ATSTK600-RC09</a>	
STK600-TQFP64	Socket Board	<a href="#">ATmegaS128-ZC-EK</a>	Purchased through Atmel distribution channel only
JTAG ICE	Software Debugger Device	<a href="#">ATATMEL-ICE-BASIC</a>	Optional

### 3 Revision History

Doc Rev.	Date	Comments
A	11/2015	Initial release.
B	05/2016	Page 2 : new ordering number for software debugger device



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