

Smart RF

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ATASTK512-EK1/EK2/EK3-IND

Starter kits for operating frequencies of 315MHz, 433MHz and 868MHz to evaluate a complete RF link. Besides the ATA8741/42/43 transmitter, these kits include a receiver board equipped with ATA8203/04/05 plus an ATmega88 AVR microcontroller and feature a secure rolling code transmission algorithm. That algorithm uses the Advanced Encryption Standard (AES) which is particularly useful for security applications like alarm systems.

Kit documentation: [ATASTK512 Hardware Information](#) , [ATASTK512 Software Drivers](#) , [STK512 User Guide](#)



[View Applications](#)

Documents

AVR411: Secure Rolling Code Algorithm for Wireless Link on tinyAVR and megaAVR devices (Application Note, 22 pages, revision D, updated 11/09)
This application note describes a Secure Rolling Code Algorithm transmission protocol for use in a unidirectional wireless communication system.

STK512 User Guide: AVR - based Uni - directional Radio Starter Kit(User Guide, 19 pages, revision C, updated 10/09)

STK500 User Guide - NOTE: See AVR Studio Help files for latest information (User Guide, 61 pages, updated 3/03)

Software

- [ATASTK512 TX/RX Software](#) (2 MB, updated 10/10)
- [ATASTK512 Hardware Information](#) (22 MB, updated 1/10)
Includes Schematics, Gerber files and BOM

Related Applications

Audio and Home Entertainment

? [Remote Controls](#)

Related Devices

- [ATA8203](#)
- [ATA8204](#)
- [ATA8205](#)
- [ATA8741](#)
- [ATA8742](#)
- [ATA8743](#)
- [ATmega88](#)
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- [ATmega88PA](#)