



# ST7C254-INDART, ST7C334-INDART, ST7F264-INDART, ST7F521-INDART, ST7FLIT0-INDART, ST7FLIT2-INDART

## In-Circuit Debugging and In-Circuit Programming Tool for ST7

DATA BRIEF

The inDart-ST7 is a powerful, low-cost In-Circuit Debugging (ICD) and In-Circuit Programming (ICP) tool, developed for ST7 in partnership with Softec Microsystems ([www.softecmicro.com](http://www.softecmicro.com)).

The inDART-ST7 takes advantage of the ST7 Visual Develop (STVD7) Integrated Development Environment and ST7 In-Circuit Communication (ICC) capability to deliver ICD and ICP for a wide range of ST7 Flash microcontrollers. Hardware and software debugging features include real-time code execution, stepping and breakpoints.

InDart-ST7 offers parallel or USB connection to the host PC, depending on the model, and 10-pin ICC connection for connecting to evaluation or application board

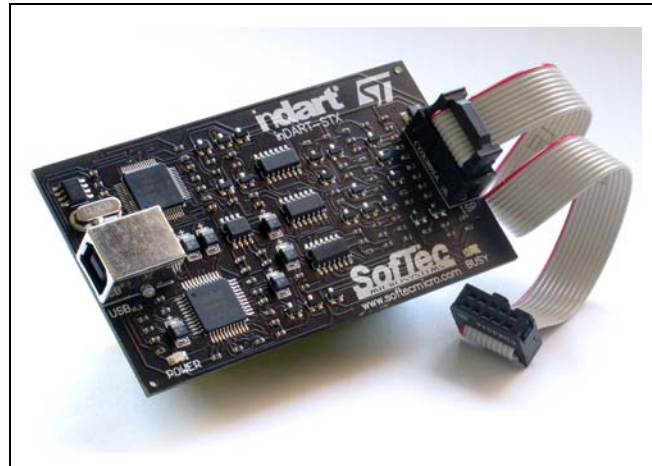


Figure 1: InDart-ST7

### In-circuit debugging features:

- Source level and symbolic debugging
- Unlimited instruction breakpoints
- Execution control including instruction stepping
- Advanced breakpoints on data, access type, access range, stack...(depending on model)
- Watch variables, registers and peripherals

### In-circuit programming features:

- Blank Check/Erase/Read/Verify for Flash, EEPROM memory and option bytes

### inDART Kit Contents

- inDART ICC interface board to connect the host PC to an evaluation or application board
- Evaluation board that includes an ST7 (except for the STXF-InDART)
- inDART edition of the STVD7 integrated development environment

Microcontroller	InDART	Advanced breakpoints	Real time	Evaluation board (MCU)	Host PC connection
All ST7 Flash MCUs	STXF-INDART/USB	Yes <sup>1</sup>	Yes <sup>2</sup>		USB
ST7FLITE0x	ST7FLIT0-IND/USB	Yes <sup>1</sup>	Yes <sup>2</sup>	Yes (ST7FLite09 – DIP16)	USB
ST7FLITE2x	ST7FLIT2-IND/USB	Yes <sup>1</sup>	Yes <sup>2</sup>	Yes (ST7FLite29 – DIP16)	USB
ST7F264	ST7F264-IND/USB	Yes <sup>1</sup>	Yes <sup>2</sup>	Yes (ST7F2649 – SDIP32)	USB
ST7F521	ST7F521-IND/USB	Yes <sup>1</sup>	Yes <sup>2</sup>	Yes (ST7F521 – TQFP64) <sup>3</sup>	USB
ST72C104 ST72C215 ST72C216 ST72C254	ST7C254-INDART		Yes	Yes (ST7C254 – SDIP32)	Parallel
ST72C124 ST72C314 ST72C334	ST7C334-INDART		Yes	Yes (ST7C334 – DIP56)	Parallel
ST7FLITE0x	ST7FLITE0-INDART		Yes	Yes (ST7FLite09 – DIP16)	Parallel
ST7F26x	ST7F264-INDART		Yes	Yes (ST7F264 – SDIP32)	Parallel

<sup>1</sup> Advanced breakpoints only for MCUs with on-chip debug module

<sup>2</sup> Real time, with breakpoint limitation for MCUs without on chip debug modules

<sup>3</sup> This evaluation board also supports ST7F32x

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