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# 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)*.

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

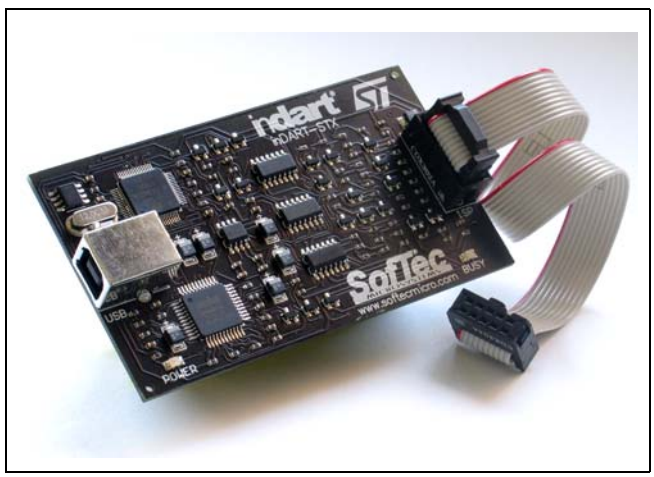


**Figure 1: InDart-ST7**

**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 [1] | Yes [2] | | USB |
| **ST7FLITE0x** | ST7FLIT0-IND/USB | Yes [1] | Yes [2] | Yes *(ST7FLite09 – DIP16)* | USB |
| **ST7FLITE2x** | ST7FLIT2-IND/USB | Yes [1] | Yes [2] | Yes *(ST7FLite29 – DIP16)* | USB |
| **ST72F264** | ST7F264-IND/USB | Yes [1] | Yes [2] | Yes *(ST7F2649 – SDIP32)* | USB |
| **ST72F521** | ST7F521-IND/USB | Yes [1] | Yes [2] | Yes *(ST7F521 – TQFP64)* [3] | USB |
| **ST72C104**<br>**ST72C215**<br>**ST72C216**<br>**ST72C254** | ST7C254-INDART | | Yes | Yes *(ST7C254 – SDIP32)* | Parallel |
| **ST72C124**<br>**ST72C314**<br>**ST72C334** | ST7C334-INDART | | Yes | Yes *(ST7C334 – DIP56)* | Parallel |
| **ST7FLITE0x** | ST7FLITE0-INDART | | Yes | Yes *(ST7FLite09 – DIP16)* | Parallel |
| **ST72F26x** | ST7F264-INDART | | Yes | Yes *(ST7F264 – SDIP32)* | Parallel |

[1] Advanced breakpoints only for MCUs with on-chip debug module

[2] Real time, with breakpoint limitation for MCUs without on chip debug modules

[3] This evaluation board also supports ST72F32x

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