



INDART, STXF-INDART/USB ST7FLIT0-IND/USB, ST7C334-INDART

In-circuit debugging and in-circuit programming tool for ST7

Data brief

Features

- 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

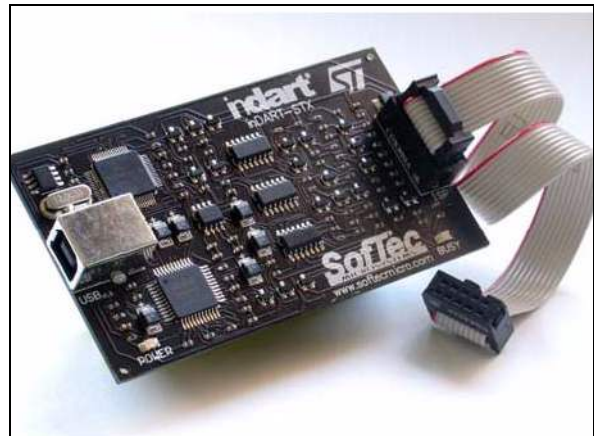
Description

The inDART is a powerful, low-cost in-circuit debugging (ICD) and in-circuit programming (ICP) tool, developed for ST7 in partnership with Softec Microsystems™.

The inDART 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.

The inDART 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.



The inDART kit contains:

- 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:

Table 1. Device summary

| inDART order code | Microcontroller |
|--|--|
| STXF-INDART/USB | All ST7 Flash MCUs |
| ST7FLIT0-IND/USB | ST7FLITE0x |
| see www.smh-tech.com | ST7FLITE2x |
| see www.smh-tech.com | ST72F264 |
| see www.smh-tech.com | ST72F521 |
| see www.smh-tech.com | ST72C104 ST72C215 ST72C216 ST72C254 |
| ST7C334-INDART | ST72C124 ST72C314 ST72C334 |
| see www.smh-tech.com | ST7FLITE0x |
| see www.smh-tech.com | ST72F26x |

Ordering information

InDART starter kits can be ordered from Softec Microsystems™ or from your nearest ST distributor or sales office. Use the following table to determine which InDART MCU is best adapted to your requirements.

Table 2. InDART details

| Microcontroller | Order code | 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 | see www.smh-tech.com | Yes ⁽¹⁾ | Yes ⁽²⁾ | Yes (ST7FLite29 – DIP16) | USB |
| ST72F264 | see www.smh-tech.com | Yes ⁽¹⁾ | Yes ⁽²⁾ | Yes (ST7F2649 – SDIP32) | USB |
| ST72F521 | see www.smh-tech.com | Yes ⁽¹⁾ | Yes ⁽²⁾ | Yes (ST7F521 – TQFP64) ⁽³⁾ | USB |
| ST72C104 ST72C215 ST72C216 ST72C254 | see www.smh-tech.com | | Yes | Yes (ST7C254 – SDIP32) | Parallel |
| ST72C124 ST72C314 ST72C334 | ST7C334-INDART | | Yes | Yes (ST7C334 – DIP56) | Parallel |
| ST7FLITE0x | see www.smh-tech.com | | Yes | Yes (ST7FLite09 – DIP16) | Parallel |
| ST72F26x | see www.smh-tech.com | | 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

For more information and documentation, please refer to the Softec Microsystems™ web site or the STMicroelectronics microcontroller support site on www.st.com.

Revision history

Table 3. Document revision history

| Date | Revision | Changes |
|-------------|----------|--|
| 01-Feb-2005 | 1 | Initial release. |
| 30-Mar-2009 | 2 | Modified references to inDart-ST7 to InDART, in line with product family name. |
| 30-May-2011 | 3 | Modified Table 1: Device summary and Table 2: InDART details . Added INDART to root part number list. |

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