



ST7FLIT2-COS/COM

Cosmic's Low-Cost Starter Kit for ST7FLITE2 and ST7FLITE1

DATA BRIEF

The **Cosmic Starter Kit for ST7FLITE2** (ST ordering code: **ST7FLIT2-COS/COM**) is a low-cost kit that provides everything you need to evaluate ST7FLITE2 and ST7FLITE1 features, including Flash memory with read-out protection, on-board EEPROM data memory, 10-bit ADC, 1% internal RC oscillator, SPI and auto-reload timer.

The ST7FLITE2 Starter Kit takes advantage of the Debug Module of the ST7FLITE2 microcontroller (MCU) to provide in-circuit debugging (ICD) via the kit's RS232 connector.

Product Architecture

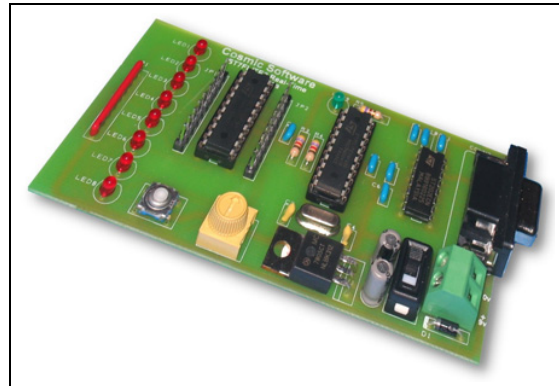
ST7FLITE2 Evaluation Board: Provides features for evaluation of the included ST7FLITE2 device (analog and digital I/Os, LEDs, switches, and potentiometer). It includes an RS232 connector, which direct ICD connection between the board and the host PC running the ZAP debugging software. The included ST7FLITE2 device allows you to develop applications for all ST7FLITE2x and ST7FLITE1x microcontrollers.

Cosmic Tool Suite: The IDEA integrated development environment running on the host PC is preconfigured for use with the Cosmic C Compiler for ST7 (CXST7). It integrates a complete range of Cosmic tools for editing, compiling and debugging your application from a single, easy-to-use environment.

Cosmic C Compiler (CXST7): The "2K Code-Size Limited" version of the Cosmic C Compiler and Smart Linker for ST7 includes syntax extensions for efficient use of all microcontroller specific features (Zero page, peripherals, EEPROM, paged memory...).

ZAP Debugger: Cosmic's full-featured debugging software allows source-level debugging of your embedded application while it runs on the board's ST7FLITE2 thanks to the ICD connection and the MCU's on-chip debugging resources.

Figure 1. ST7FLITE2 Starter Kit



Key Features

ST7FLITE2 Evaluation Board:

- ICD via RS232 connector (RS232 cable is included)
- 2 real-time hardware breakpoints, which can be combined to provide advanced breakpoints
- ST7FLITE2 microcontroller
- LEDs and switches on analog and digital I/O ports
- Potentiometer
- 9V battery

Cosmic Tool suite:

- IDEA, Integrated Development Environment for ST7
- Integrated editor with syntax highlighting for C and Assembly source files
- Project Manager for easy access to frequently used functions
- Link file generator for point-and-click configuration of memory map
- Graphical smart build for easy control of application (re)build and user-defined utilities (No need for a makefile)

CXST7 Compiler, Assembler and Linker package

- ANSI and ISO standard C Compiler
- Reentrant and Recursive using ANSI stack frame conventions
- 7 programming models
- C support for Zero page
- Bit variables

Note: The 16K code-size version of the Cosmic C Compiler is available for free download at www.cosmic-software.com.

ZAP debugger

- C and Assembly source-level debugging with coordinated source and disassembly displays
- ANSI C debugging for easy access to C objects, including Enums, Bit fields, Structs, Floats, etc.

For further information you can refer to www.st.com/mcu, or the Cosmic internet site www.cosmic-software.com.

Revision history

Date	Revision	Changes
15-Aug-2005	1	Initial release.

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