



THE DATASHEET OF ST7FUS-PRIMER





ST7FUS-PRIMER

Complete, ultra low-cost kit for evaluation and application development with ST7Ultralite

Data Brief

The ST7Ultralite Primer (ST7FUS-PRIMER) is a complete, ultra low-cost evaluation and development package that provides a fun and easy introduction to the features of ST's tiny 8-pin ST7FLITEUS microcontrollers including the internal RC oscillator, 10-bit Analog Digital Converter (ADC), 12-bit Autoreload timer with PWM, Low voltage and Auxiliary voltage detectors.

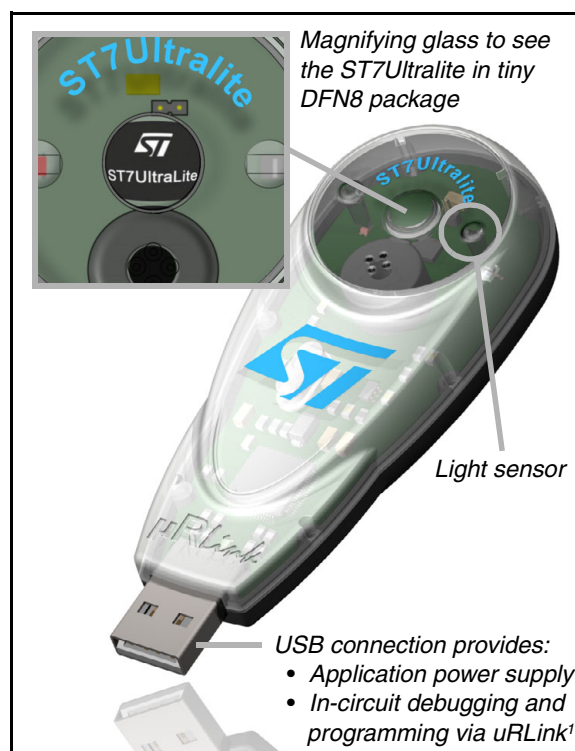
The Primer comes pre-programmed with the *UltraliteMusic* software application and plugs directly into a USB port on a host PC. Powered by the USB connection, this light sensor/buzzer application plays five musical selections. Changes in light intensity cause the application to step sequentially through the musical selections. If disconnected from the USB port and then plugged back in, the music starts playing from the point where it left off thanks to the MCU's low voltage detection feature. Users can modify or create their own application using the included C compiler and RIDE software toolset, which comes with a ready-to-build project and C source files for the *UltraliteMusic* application.

For in-circuit debugging and programming the ST7Ultralite Primer includes the Raisonance uRLink¹ in-circuit debugger and programmer, which allows users to run, modify and debug the application code via the USB connection on their PC using the RIDE development environment.

Features

The ST7Ultralite Primer is a complete evaluation and development solution for the ST7FLITEUS that includes:

- Ready-to-run light sensor/buzzer application:
 - ST7FLITEUS microcontroller
 - Power supply via USB
 - uRLink¹ for in-circuit debugging and in-circuit programming via USB



- Raisonance software tools for building, debugging and programming the application:
 - RIDE integrated development environment for complete control of debugging and programming of the application
 - Raisonance C compiler for ST7FLITEUS
 - RIDE project file and application source code (C sources)
 - RBuilder application builder for quick, easy configuration of ST7 peripherals and generation of associated application source code based on the ST7 Software Library
 - RFlasher programming software interface
- *QuickStart* for modifying and debugging the application with RIDE in 9 easy steps. See *QuickStart_ST7Ultralite_Primer.pdf* on the Raisonance software installation mini-ROM.

Note: ¹ The uRLink is the Primer's embedded version of the RLink in-circuit debugger/programmer with the same capabilities.

Ordering information

The ST7Ultralite Primer (ST order code: ST7FUS-PRIMER) is available from STMicroelectronic's sales offices and distributors. When ordering the ST7FUS-PRIMER directly from ST, ordering quantities are in multiples of 10.

For more information...

The ST7Ultralite Primer includes the **ST 8, 16 and 32-Bit Microcontrollers** mini-ROM, with a detailed presentation of ST's microcontroller families, applications and development tools.

The microcontroller support site, www.st.com/mcu provides a number of free tools and microcontroller support features including software downloads, on-line product selector, user groups and complete documentation.

For further information about the ST7Ultralite and supporting development tools, refer to the on-line product selector, or the **ST7FLITEUS Datasheet** available at www.st.com/mcu.

Revision history

Table 1. Document revision history

Date	Revision	Changes
8-Sep-2006	1	Initial release.

Please Read Carefully:

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS EXPRESSLY APPROVED IN WRITING BY AN AUTHORIZED ST REPRESENTATIVE, ST PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN MILITARY, AIR CRAFT, SPACE, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. ST PRODUCTS WHICH ARE NOT SPECIFIED AS "AUTOMOTIVE GRADE" MAY ONLY BE USED IN AUTOMOTIVE APPLICATIONS AT USER'S OWN RISK.

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2006 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

www.st.com

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View ST7FUS-PRIMER](#) on WIN SOURCE
- ⊖ [STMicroelectronics](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management