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Raisonance brand application development tools for MCUs

EvoPrimer/Open4 STM32F429

Embedding a Microcontroller Graphics Revolution

KEOLABS' Brand for MCU Development Tools



Validation solutions for the microelectronics industry

- Smart Card Certification
 - Testing platforms
 - Standard-specific test & certification solutions
 - ISO17025 accredited Certification Center
- MCU application development tools...

Tools for Microcontrollers

- Raisonance brand tools
 - Since 1988
- Complete hardware / software tool offer
- Supporting a range of ST MCUs
 - STM32
 - STM8
 - ST7
 - SPC56



EvoPrimer / Open4 Platforms

Explore, Create & Maintain STM32 Applications

- Explore STM32 capabilities & features
 - Interchangable STM32 target boards NEW STM32F429, STM32407IG, STM32L152, STM32F103VG, STM32F107VC, STM8L
 - +100 free sample applications (sources)
 - Hardware extensions for MEMS & RF
- Fine-tune applications
 - Complete software tool set (GCC, Ride7)
 - Integrated RLink (SWD, + SWV trace)
 - Program & debug external application boards
- Program, maintain & support in the lab or field *
 - NEW Standalone programming of STM32 devices
 - NEW Standalone monitoring of applications during execution



^{*} Features available with purchase of upgrade (firmware/hardware) to EvoPrimer-LAB or Open4-LAB.

EvoPrimer / Open4 Graphics Revolution

Complete Solution for a Graphics Revolution

- STM32F429 with...
 - ARM Cortex-M4 core
 - Chrom-ART Accelerator™ (DMA2D)
 - Integrated SDRAM controller
- EvoPrimer platform with...
 - 240 x 320 px Color Touchscreen
 - Additional external SDRAM (target board)
 - CircleOS abstraction layer for DMA2D features
 - Sample code for GUI, Games

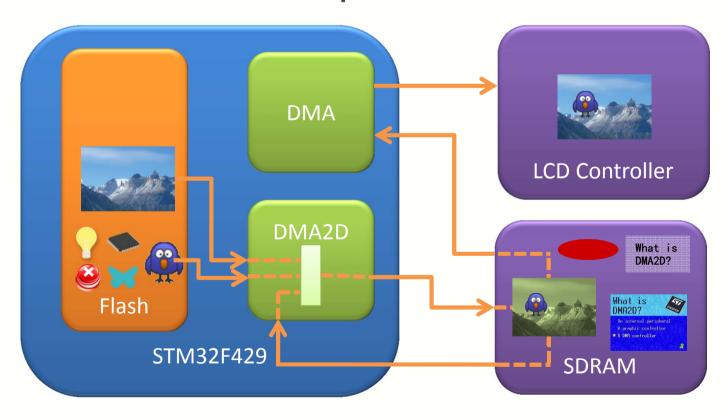
Animate & Enhance Your Graphical Interfaces

- with minimum cost, code and impact on processor performance
- add object animation, movement, transparency, layering, and more...



EvoPrimer / Open4 Graphics Revolution

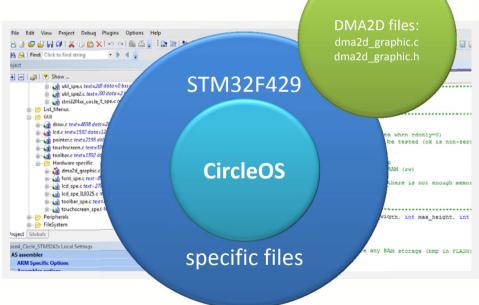
Chrom-ART on EvoPrimer/Open4 STM32F429



EvoPrimer / Open4 Graphics Revolution

Chrom-ART Accelerator™ on EvoPrimer/Open4

- CircleOS Integration
 - DMA2D Abstraction Layer
 - API to call features
 - DMA2D files easily split from CircleOS
 - CircleOS
 - Peripheral abstraction for sample app. portability
 - API to ease implementation
 - Some minor evolutions...



EvoPrimer / Open 4 Development Features

Software development tools*

- GCC C/C++ compiler
- Ride7 development environment
- CircleOS API

Hardware programming / debugging features

- SWD device interface (USB connection to PC)
- SWV for configurable execution trace

stm32circle.com development support

- User forums for peer & Raisonance engineering support
- Wide range of sample applications (C sources)
 - Two STM32F429/DMA2D sample apps
 - +100 STM32 compatible sample apps
- +40 000 registered users



^{*} Unlimited compiling, programming. Debug up to 64 KB application code is device Flash > 64 KB. Debug up to ½ Flash size if device Flash is 64 KB or less. Upgradable to unlimited license for only 599 Euros.

EvoPrimer Pricing

EvoPrimer STM32F429

Products	Description	Notes	Price
EvoPrimer STM32F429 (STM3242IPRIMER)	Software / Hardware kit for STM32429 application development with integrated Chrom-ART™ graphics accelerator (DMA2D), LCD driver, SDRAM driver. Includes EvoPrimer base, STM32F429 target board. Complete software toolchain: Ride7, GCC C/C++ compiler for ARM.	"Lite" software license, unlimited compiling, programming, debug code size limited *	\$99 USD**
STM32F429 Target Board (STM3242IPRIM-D)	EvoPrimer target board for STM32429 application development with integrated Chrom-ART™ graphics accelerator (DMA2D), LCD driver, SDRAM driver. Complete software toolchain: Ride7, GCC C/C++ compiler for ARM.	"Lite" software license, unlimited compiling, programming, debug code size limited *	\$39 USD**

^{* &}quot;Lite" software license: Unlimited programming. Debug up to 64 KB application code is device Flash > 64 KB. Debug up to ½ Flash size if device Flash is 64 KB or less.

** Recommended pricing for STMicroelectronics distribution and direct sales.

For More Information...

Contact Raisonance tool sales reps...

- contact@raisonance.com
- Regional distributors...
 - www.raisonance.com/microcontroller_distributors.html

Visit Raisonance tool web sites...

- For pricing and online purchase...
 - www.raisonance.com
- For product support...
 - support-raisonance.com