life.augmented

STM32F469/479
World's first MIPI-DSI MCU



High-performance, large memory resources, extended connectivity and advanced graphic capabilities

The STM32F469/479 product line delivers the industry's highest ARM® Cortex®-M4 performance and offers large memory resources with rich connectivity enabling the most advanced consumer, industrial and medical applications.

Leveraging ST's proprietary Chrom-ART Accelerator™ and a smart hardware architecture, the product line brings smartphone-like graphic interfaces to everyday objects enabling more intuitive user interfaces.

The STM32F469/479 products offer 384 Kbytes of SRAM along with 512 Kbytes to 2 Mbytes of Flash memory in packages with 168 to 216 pins.

PERFORMANCE

Release your creativity and develop smarter applications:

- Cortex-M4 running at 180 MHz
- ART-Accelerator™ allowing zero wait state execution from internal Flash
- FPU and DSP capabilities
- 225 DMIPS / 608 CoreMark

GRAPHIC USER INTERFACE

Differentiate your application with advanced graphic user interfaces:

- Chrom-ART Accelerator™ for more animation and graphic effects
- Display parallel interface
- TFT-LCD controller
- MIPI digital signal interface supporting the most modern displays coming with higher pixel density, fewer pins, lower EMI and lower power consumption.

CONNECTIVITY AND FEATURES

Develop richer IoT and wearable applications with the STM32F469/479 extended connectivity and features:

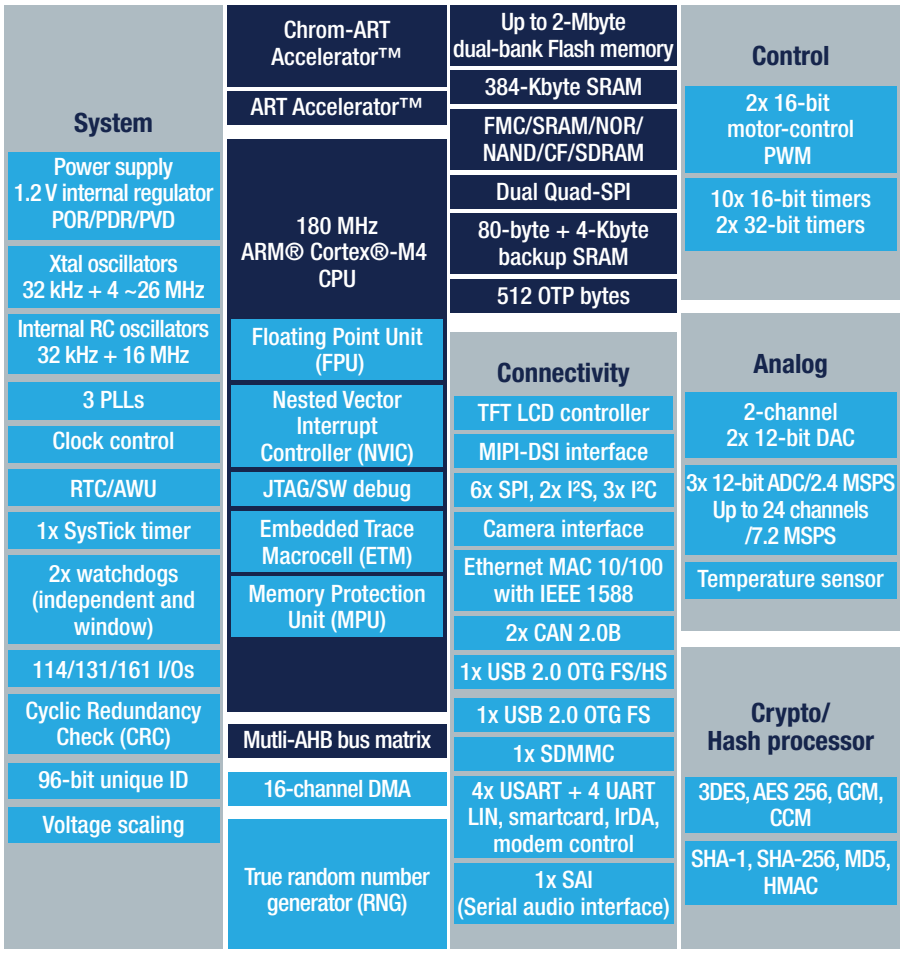
- Dual Quad-SPI and FMC with SDRAM support
- Ethernet MAC, SDMMC and USB FS and HS/FS
- Camera Interface
- I²S and serial audio interface

INTEGRATION AND POWER EFFCIENCY

Extend battery life and optimize your design:

- Up to 2 Mbytes of dual-bank Flash
- 384-Kbyte embedded SRAM
- Packages as small as 4.89 x 5.69 mm
- Down to 140 µA power consumption in Stop mode with full SRAM retained

STM32F479 BLOCK DIAGRAM



HARDWARE TOOLS

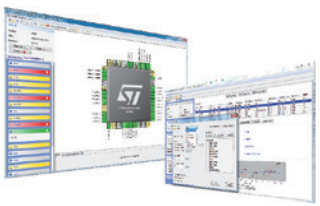


STM32469I-EVAL
STM32479I-EVAL
www.st.com/stm32evaltools



STM32F469I-DISCOVERY
www.st.com/stm32f4-discovery

SOFTWARE TOOLS



STM32CubeMX enables fast development thanks to its MCU clock configurator, power consumption calculator and code

SOFTWARE TOOLS

Beyond the wide set of partners and ARM ecosystem solutions, the STM32F469/479 lines come with dedicated tools and software:

- STM32CubeF4: embedded software for STM32F4 series (HAL, USB, TCP/IP, file system, RTOS, and graphics libraries available with examples able to run on ST boards)
- STM32CubeMX: graphical software configuration tool to generate C initialization code using graphical wizard www.st.com/stm32cube
- A choice of leading graphic libraries taking the full advantage of ST's advanced accelerators and architecture and simplify the design of advanced user interfaces.

FREE
STemWin
SEGGER



TouchGFX



Embedded Wizard



MIX
Paper from responsible sources
FSC® C003379

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