

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 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.

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.

PERFORMANCES

- 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

- 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

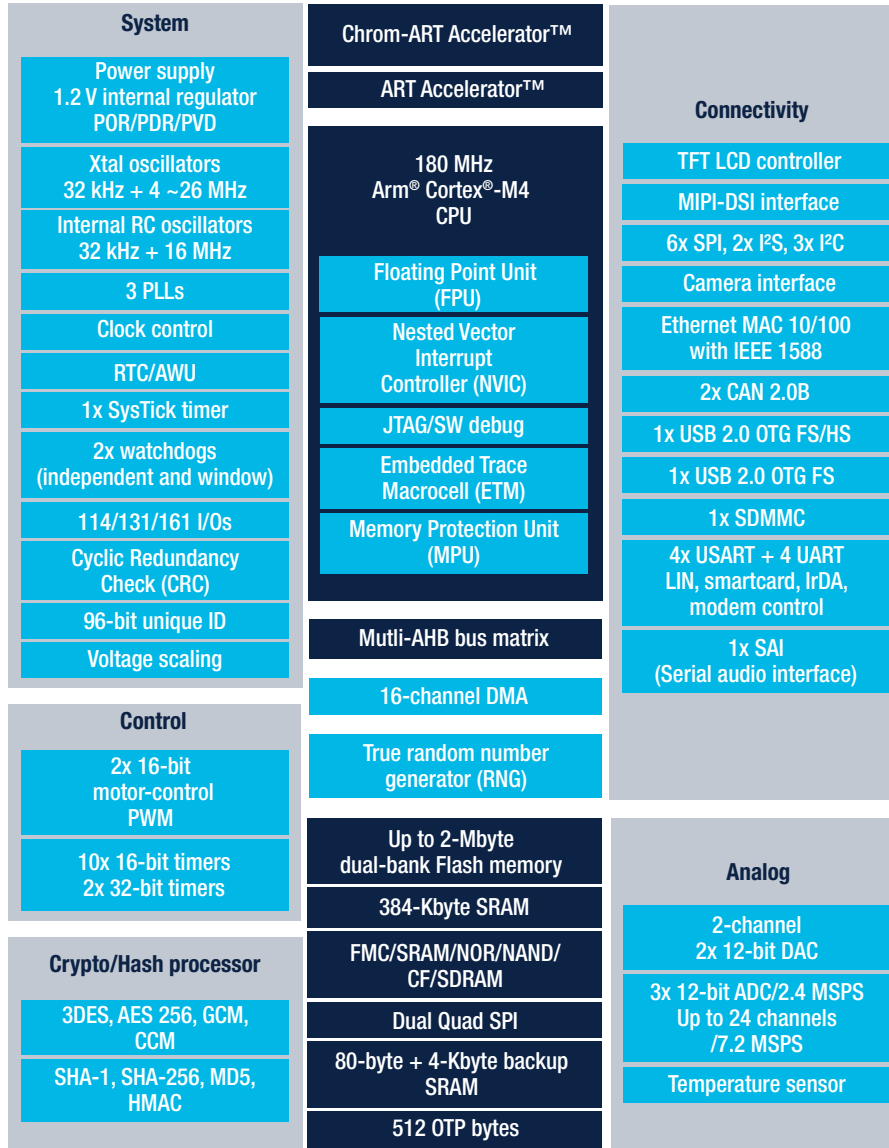
CONNECTIVITY AND FEATURES

- 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 EFFICIENCY

- 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



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

Software tools



STM32CubeIDE, all-in-one tool to accelerate your project development including MCU configuration and project generation, code edition, build and advance debug features..



Embedded software

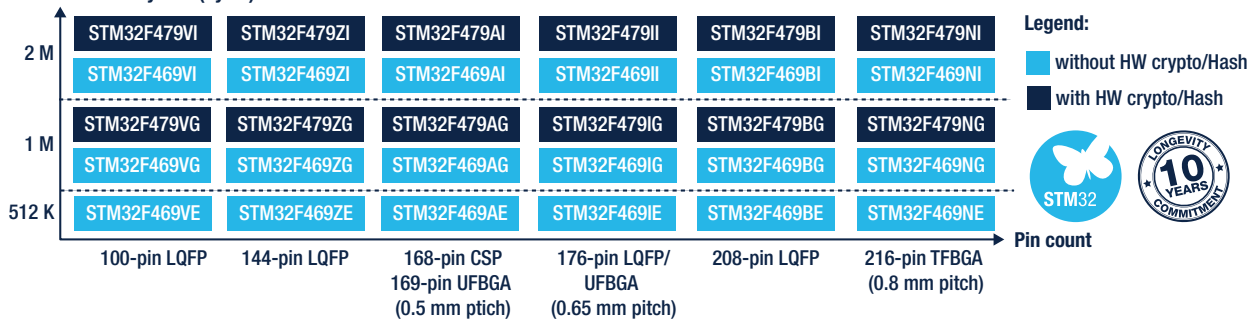


The TouchGFX solution is distributed as an STM32Cube Expansion Package (X-CUBE-TOUCH-GFX), which includes all TouchGFX software to help users develop their UI application.



STM32F469/479 portfolio

Flash size memory size (bytes)



© STMicroelectronics - March 2021 - Printed in the United Kingdom - All rights reserved
ST and the ST logo are registered and/or unregistered trademarks of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere. In particular, ST and the ST logo are Registered in the US Patent and Trademark Office. For additional information about ST trademarks, please refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

