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

**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
- PS and serial audio interface

**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.

**INTEGRATION AND POWER EFFICIENCY**
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

www.st.com/stm32f4
### 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](http://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.

### HARDWARE TOOLS

STM32469I-EVAL
STM32479I-EVAL
[www.st.com/stm32evaltools](http://www.st.com/stm32evaltools)

STM32F469I-DISCOVERY
[www.st.com/stm32f4-discovery](http://www.st.com/stm32f4-discovery)

### SOFTWARE TOOLS

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