

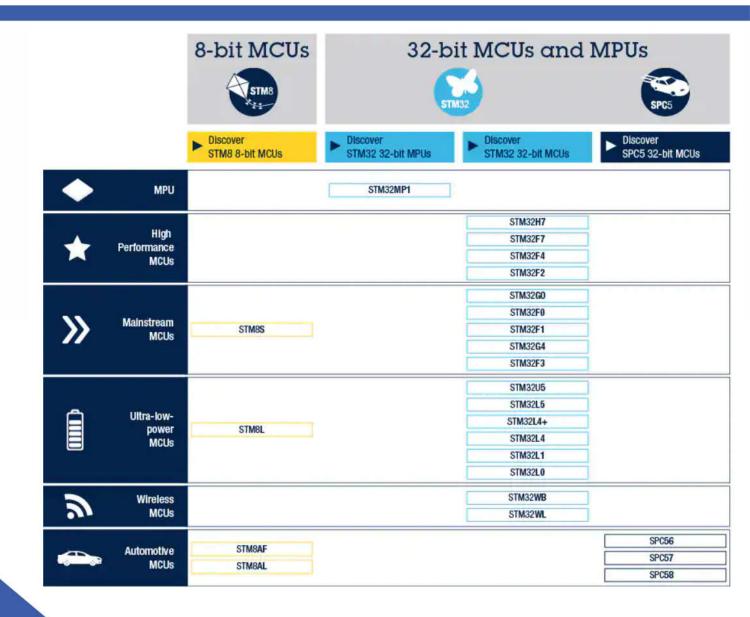






MCUs & MPUs STMicroelectronics (STM)

- Microcontroller (MCU)
 - 1. STM8 (8-bit)
 - 2. STM32 (32-bit)
 - 3. STM32-SPC5 (32-bit)
- Microprocessor (MPU)
 - 1. STM32 MPU (32-bit)





8-Bit MCU



STM8 8-bit MCUs Core up to 24 MHz



STM8 Ecosystem



Industrial, consumer and mass market

Robust and reliable Up to 125 °C STM8S

Data EEPROM, 3 and 5 V families, precise RC

Ideal combination of low-power performance and features

High-end analog IPs Active Halt < 1 µA STM8L

Data EEPROM, 1.65 and 3 V families, strong analog, LCD drivers, low-leakage technology



Long-term guarantee

Long-term

guarantee

AEC-Q100 Up to 150 °C

AEC-0100

Up to 125 °C

STM8AF

Data EEPROM,
3 and 5 V families,
precise RC, LIN, CAN, grade 0

ASIL Ready

STMBAL

Data EEPROM, 1.55 and 3 V families, strong analog, LCD drivers, low-leakage technology ASIL Ready



Join the STM8 Community! http://community.st.com/stm8

Software tools

STM8CubeMX Configuration tool

Integrated Development Environments (IDE)

STM Studio Monitoring tool

► More software tools

Embedded software

Standard Peripheral Library for STM8L (8kb)

Standard Peripheral Library for STM8L/AL (64kb)

Standard Peripheral Library for STM8A/S

► More embedded software

Hardware tools

STM8 Discovery kits, Nucleo and evaluation boards

ST-LINK in-circuit debugger/programmer



32-Bit MCU



STM32 MCUs 32-bit Arm® Cortex®-M





STM32F2

608 CoreMark 398 CoreMark 180 MHz Cortex-M4 120 MHz Cortex-M3

STM32F7

1082 CoreMark 216 MHz Cortex-M7 STM32H7

Up to 3224 CoreMark Up to 550 MHz Cortex-M7 240 MHz Cortex-M4



STM32G0

142 CoreMark 64 MHz Cortex-MO+

STM32F0

STM32L0

75 CoreMark

32 MHz Cortex-M0+

106 CoreMark 48 MHz Cortex-MO

STM32F1 177 CoreMark 72 MHz Cortex-M3

STM32L1

93 CoreMark

32 MHz Cortex-M3

STM32F3 0 245 CoreMark 72 MHz Cortex-M4

STM32G4

569 CoreMark

170 MHz Cortex-M4

STM32F4

Optimized for mixed-signal applications



power

409 CoreMark 120 MHz Cortex-M4

273 CoreMark

80 MHz Cortex-M4

STM32L4+

STM32U5 651 CoreMark 160 MHz Cortex-M33

STM32L4

STM32L5

443 CoreMark 110 MHz Cortex-M33



STM32WL

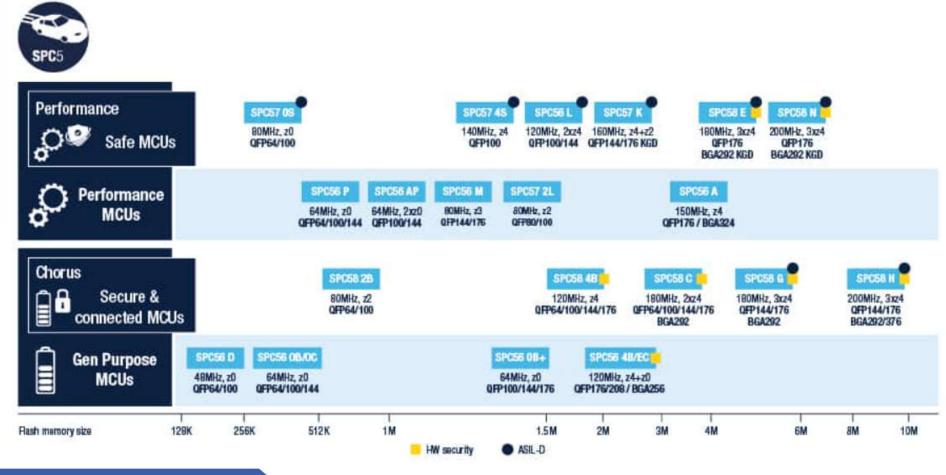
162 CoreMark 48 MHz Cortex-M4 48 MHz Cortex-M0+ STM32WB

216 CoreMark 64 MHz Cortex-M4 32 MHz Cortex-MO+

> Cortex-M0+ Radio co-processor



32-Bit Automotive MCU





32-Bit MPU





STM32 MPUs 32-bit Arm® Cortex®-A & -M

STM32MP1530

3040 + 260 DMIPS

800 MHz 2x Cortex-A7

209 MHz Cortex-M4

STM32MP153A

2470 + 260 DMIPS

650 MHz 2x Cortex-A7

209 MHz Cortex-M4

CAN FD

STM32MP153F

Security

Security



Security

Socurity

STM32

STM32MP1570

3040 + 260 DMIPS

800 MHz 2x Cortux-A7

209 MHz Cortex-M4

CAN FD - 3D GPU - DSI

2470 + 260 DMIPS

656 MHz 2x Cortex-A7

209 MHz Cortex-M4

CAN FD - 3D GPU - DSI

STM32MP157A STM32MP157C

STM32 Learning

STM32 MPU Wiki



STM32 GitHub



STM32 MPU Community



STM32 Education



STM32 Ecosystem

Dual Cortex-A7 + Cortex-M4

Evaluation tools

STM32MP151D

1520 + 260 DMIPS

900 MHz Cortex-A7

209 MHz Cortex-M4

1235 + 260 DMIPS

650 MHz Cortex-A7

209 MHz Cortex-M4

STM32MP151A STM32MP151C

Cortex-A7 + Cortex-M4

STM32MP151F

Security

Security



Software tools



Embedded Software



Hardware Tools



MadeFor Security STM32



ST Partners



STM32 Solutions

Artificial Neural Networks



Audio/Voice



Graphical User Interface



Motor Control



Safety



USB Type-C





Reference

https://www.st.com/en/microcontrollers-microprocessors.html#overview



Terima kasih

