# STM32MP13 MPU lines

## For entry-level Linux, bare metal or RTOS systems


### A cost- & energy-efficient MPU with certified security.

STM32MP13 MPU product lines help you make your applications more power efficient and more secure, in an affordable way. The STM32MP13 MPUs are based on the Arm® Cortex®-A7 core, which runs from 650 MHz up to 1 GHz, enabling real-time performance.

This industrial grade MPU benefits from a strong, user-friendly ecosystem (OpenST Linux, Linux-RT, RTOS) and comes with PCB layout reference designs to accelerate your development.

STM32MP13 MPU lines offer best-in-class energy consumption with over 90% energy savings in standby and $V_{BAT}$ modes, compared to alternative solutions in the market.

**ACCESSIBLE**
- Strong, user-friendly ecosystem for STM32 MPUs (OpenSTLinux, Linux-RT, RTOS)
- PCB Layout reference designs

**SECURE**
- Strong robustness
- Certified for faster time to market
  - SESIP Level 3 certification
  - PCI PTS 6.0 pre-certification
  - PSA Level 1 certification
- Cryptographic accelerator
- Memory protections
- Code isolation
- Platform authentication
- Complete security ecosystem

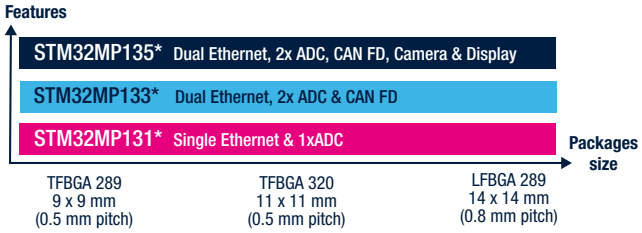
**POWER EFFICIENT**
- Best-in-class consumption in low power modes
- Over 90% energy savings in Standby and $V_{BAT}$ modes

**APPLICATIONS**
- Industry 4.0
- Data concentrator and metering
- Point of Sales
- Smart Homes

**www.st.com/stm32mp1**

## STM32MP135 block diagram


## STM32MP13x portfolio




*650 MHz to 1 GHz with or without crypto and secure boot

**Packages can support down to 4-layers PTH PCB (without costly lasers vias)**

## STM32MP1 MPU embedded software distribution includes:

Linux® distribution based on Yocto, running on the Arm® Cortex®-A processor(s): OpenSTLinux Distribution

OpenSTLinux Distribution

yocto PROJECT SILVER COMPATIBLE

Buildroot Making Embedded Linux Easy

THE LINUX FOUNDATION

## Hardware tools

Discovery kit to explore the features of the STM32MP135F MPU.

STM32MP135F-DK
Discovery Kit

## Software tools

STM32MP1 MPU series come with enhanced STM32CubeMX, multi-core IDE solutions (including STM32CubeIDE for device tree management) and STM32CubeProgrammer.

STM32 Cube

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