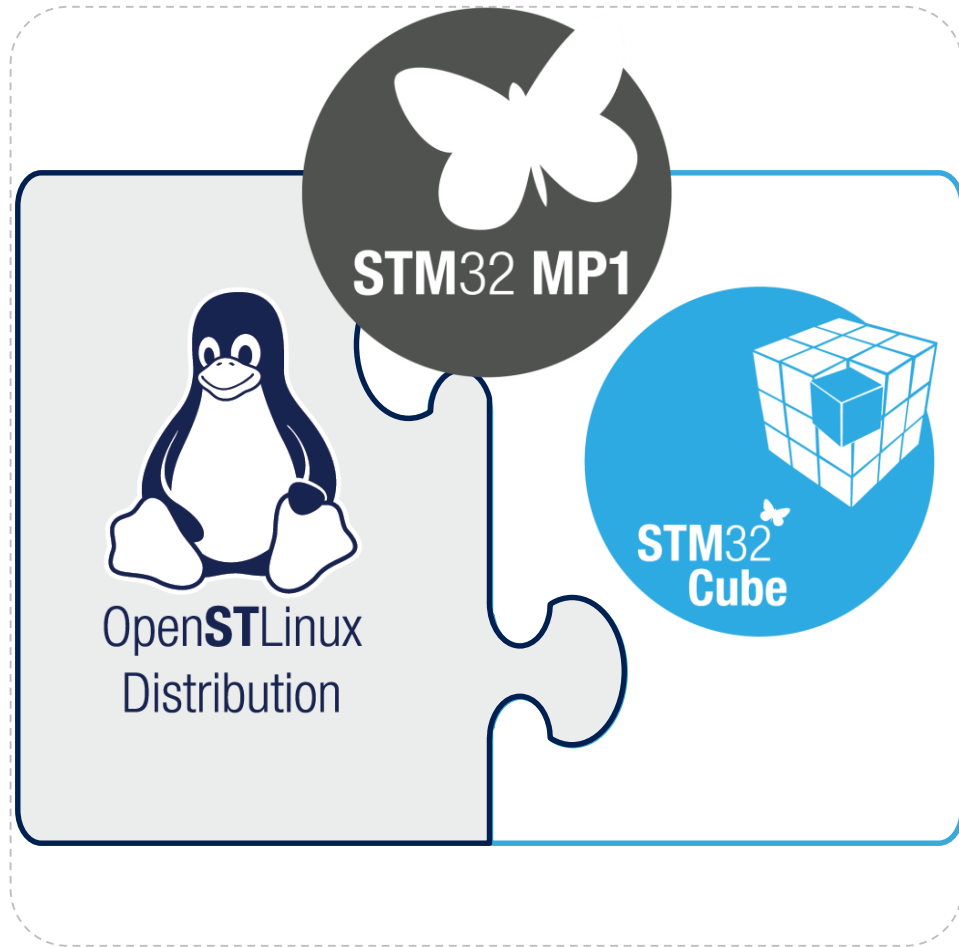


STM32MP1 Microprocessor



General-Purpose MPU for Multiple Applications

Flexible Architecture with Rich Features

Flexible Architecture for Power Efficiency

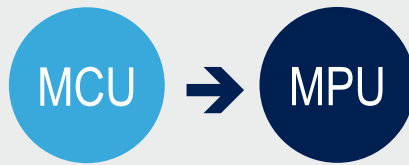
Accelerate Development with
STM32 Ecosystem

STM32MP1: General-Purpose MPU

Suitable for All Developer Types and Multiple Applications

Developer Profile

MCU users
new to MPU



Mixed MCU
and MPU users



Pure MPU users



Possible Applications



Industrial



Consumer



Health & Wellness



Home

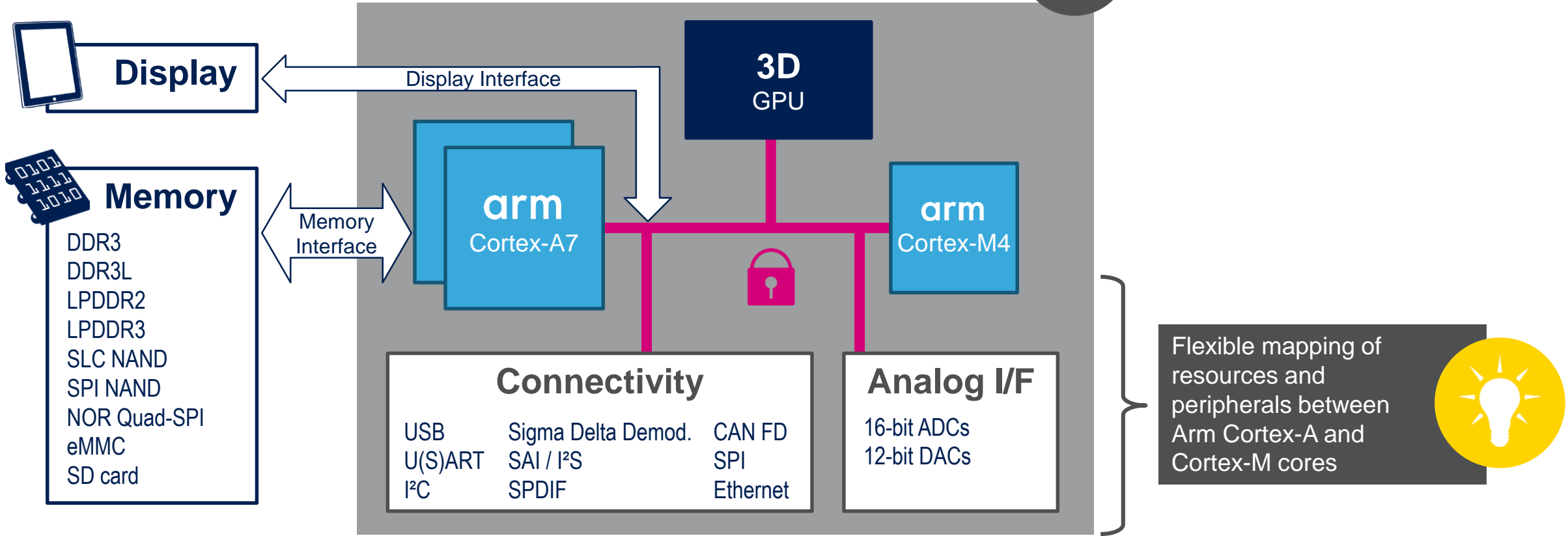
STM32 MP1



Flexible Architecture with Rich Features

Multiple Core Architecture

STM32 MP1



STM32MP1 Portfolio Offering

STM32MP157



Dual Arm Cortex-A7 + Cortex-M4
3D GPU – DSI – CAN FD


 **TFBGA257** 10x10mm p0.5
4 layers PTH PCB

smallest package for dual Cortex-A GP MPU

STM32MP153



Dual Arm Cortex-A7 + Cortex-M4
CAN FD

 **TFBGA361** 12x12mm p0.5
4 layers PTH + Laser via PCB

 **LFBGA354** 16x16mm p0.8
4 layers PTH PCB

STM32MP151



Arm Cortex-A7 + Cortex-M4

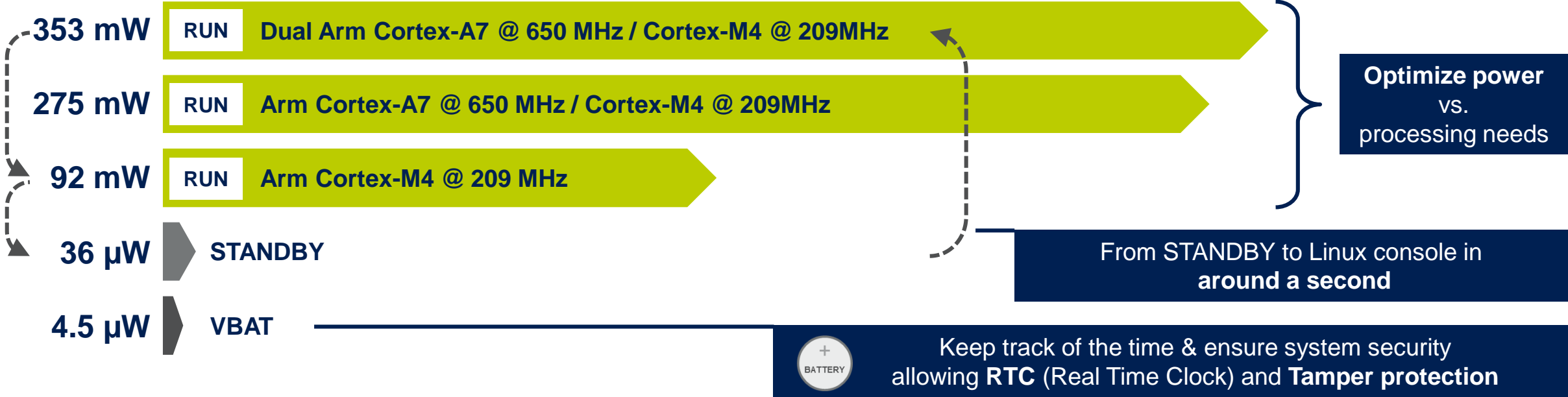
 **LFBGA448** 18x18mm p0.8
6 layers PTH PCB

3 Product Lines — Optional Security — 4 Packages



Flexible Architecture for Power Efficiency

Dynamic Modes for Optimized Power Consumption



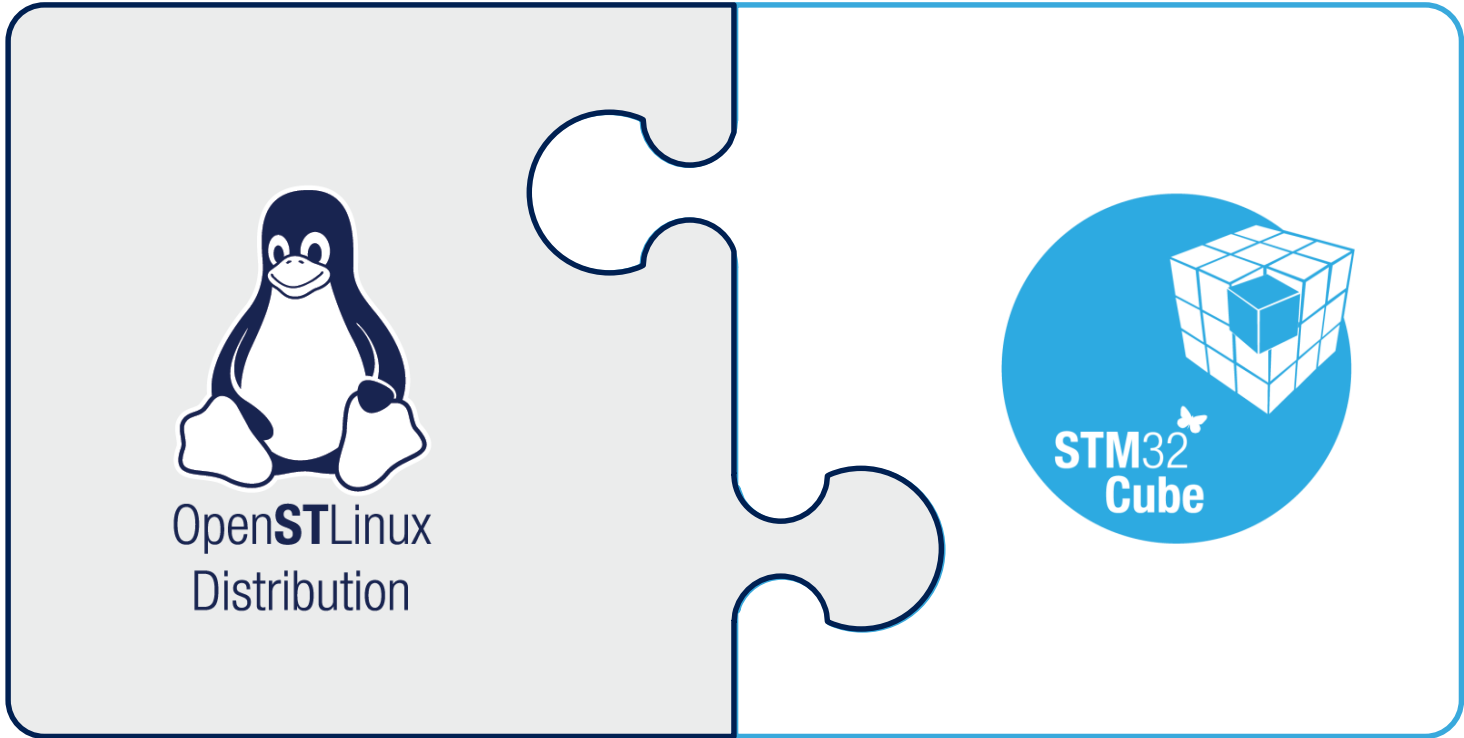
Typ @ VDDCORE = 1.2V, VDD = 3.3V @ 25 °C, Peripherals OFF



A Fully Integrated Design Suite

Leveraging the STM32Cube Environment

arm
Cortex-A7

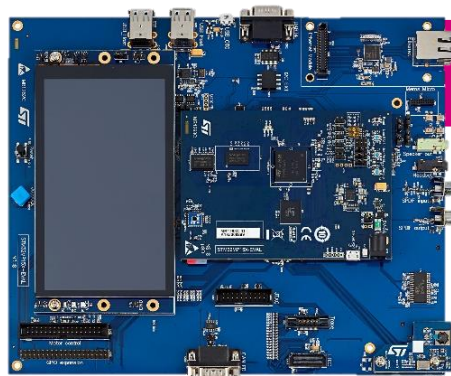


arm
Cortex-M4

STM32MP1 Embedded Software Distribution

STM32MP1 Hardware Solutions

Speed-up evaluation, prototyping and design



Available at
\$399



Available at
\$99

Available at
\$69



Evaluation Board

Full feature STM32MP1 evaluation

- STM32MP157A-EV1
- STM32MP157C-EV1

Discovery Board

Flexible prototyping & demo

- STM32MP157A-DK1
- STM32MP157C-DK2
 - + MIPI DSI WVGA display
 - + Wi-Fi/BT combo module

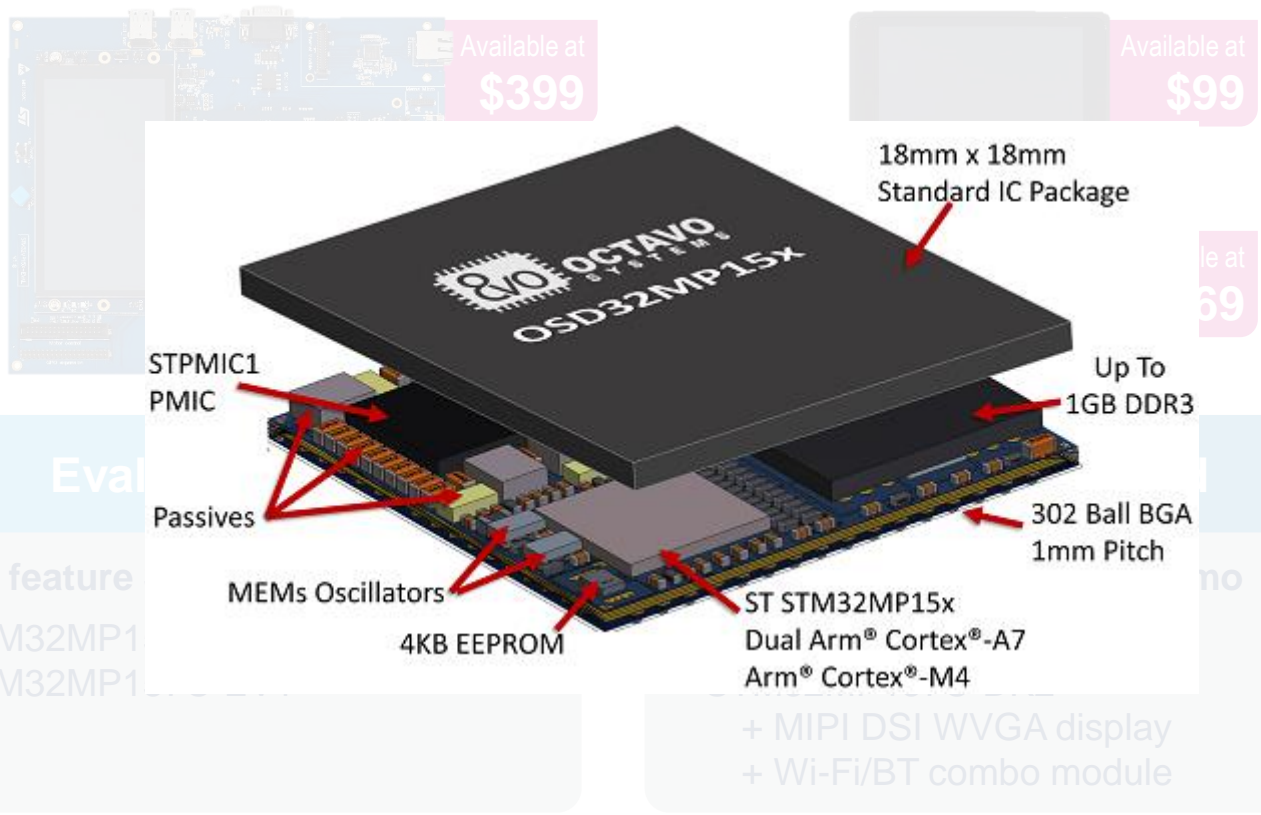
Boards & SoMs

3rd Parties Boards for prototyping and production

- Board Specification from Linaro (96boards.org)
- Commercial SoM w/ different forms

STM32MP1 Hardware Solutions

Speed-up evaluation, prototyping and design



Boards & SoM*s

- 3rd-Party Boards for prototyping and production**
- Board Specification from Linaro (96boards.org)
 - Commercial SoM w/ different forms

Software, Training and Services

a Broad Ecosystem to Support Development



ST's **wiki** user guide
for beginners and experts
<https://wiki.st.com/>

Large selection of partners
already engaged for:

- Graphics UI
- Security
- Training and services

