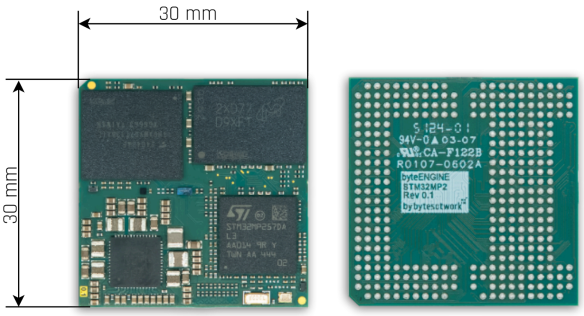
FactSheet

# byteENGINE STM32MP2

industrial computing module

bytesatwork

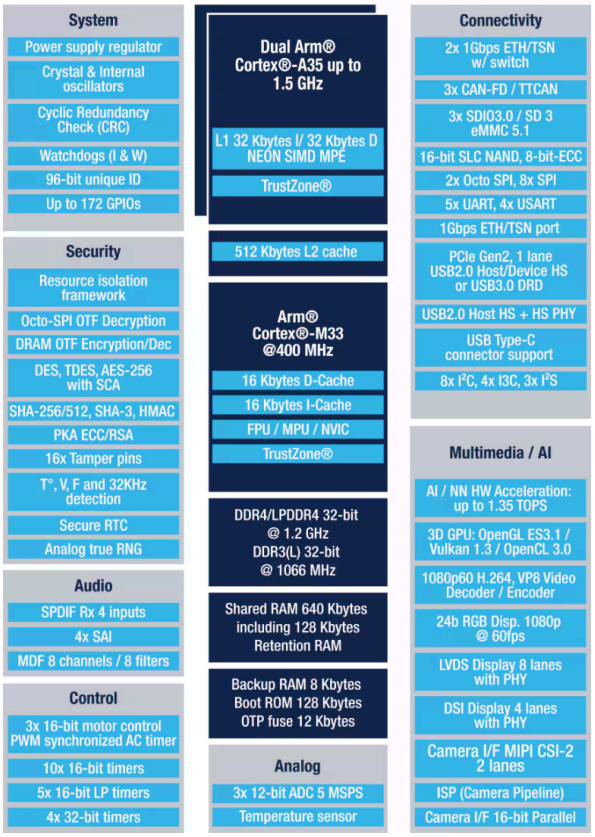
## DIMENSIONS




## USE CASES

- EV Chargers
- Edge AI Applications
- Advanced industrial HMI

## BLOCK DIAGRAM




## YOUR CUSTOMIZED MODULE

Manufacturing customized module variants starting from small quantities is our strength. Contact us for a non-binding inquiry.

## FEATURES

Step into the future: This module meets Industry 4.0 needs, enables advanced AI capabilities and supports high-end multimedia features. With its rich high-speed memory and advanced security features, it is designed for innovation without compromises.

- Single or Dual ARM Cortex®-A35 and Cortex®-M33 MCU
- Verisilicon GPU and NPU
- High-speed LPDDR4 memory interface.
- Small format, high performance.
- Advanced Security for Industry 4.0

## MODULE SPECIFICATION

| | |
|---|---|
| **CPU** | Single or Dual core ARM Cortex® A35 of ST STM32MP25 CPU Family |
| **Co-CPU** | Cortex® M33 MCU 400 MHz |
| **Frequency** | Up to 1.5 GHz |
| **Memory** | 512 MB to 2048 MB LPDDR4 |
| **Flash eMMC** | up to 128 GB |
| **Temperature** | Industrial: -40 to +85° C , consumer: 0 to 85° C |
| **Power** | 5.0 V, max. 4 W, typical 2 W |
| **Dimensions** | 30 x 30 x 3 mm |
| **Connector** | OSM-S Interface |
| **Software Support** | Yocto Linux, Debian, Zephyr RTOS and more |
| **Interfaces** | Ethernet, SPI, SDIO, I2C, I3C GPIO, UART, CAN-FD, OctalSPI, USB, LVDS, DSI, CSI |
| **GPU / NPU** | VeriSilicon GC8000UL |
| **Display** | Up to 1920 × 1080 @ 60FPS |
| **Safety Features** | Prepared for functional safety applications |
| **Longevity** | Yes |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**Further Product Information**
STM32MP2 Modules


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