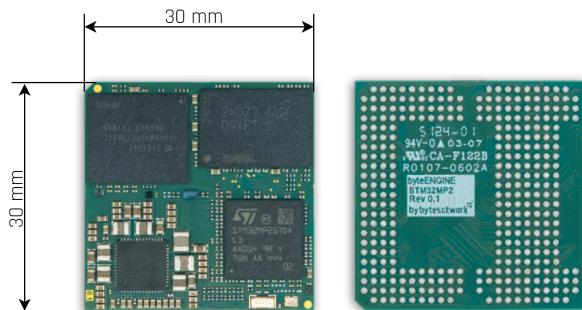


# byteENGINE STM32MP2

industrial computing module



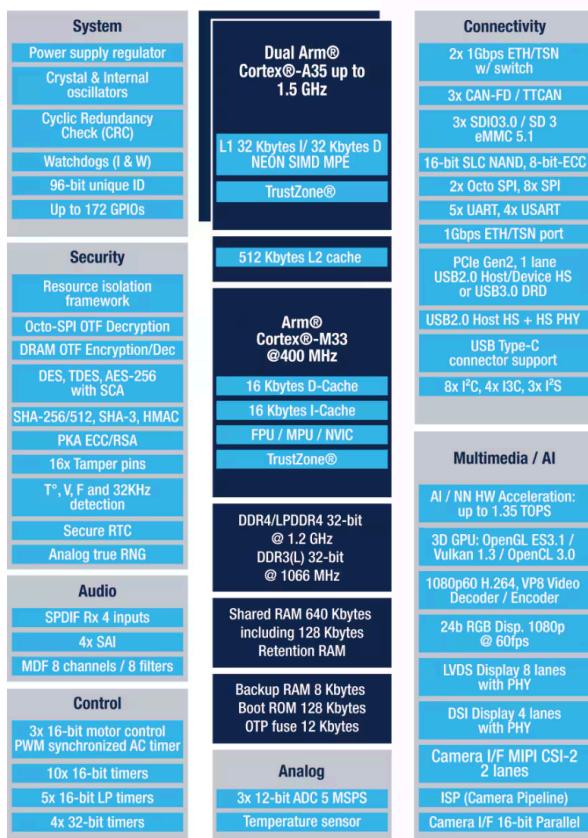
## DIMENSIONS



## 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, you are ready to innovate without compromise.

- 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

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



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### Help

bytewiki.readthedocs.io



### Further Product Information

STM32MP2 Modules

