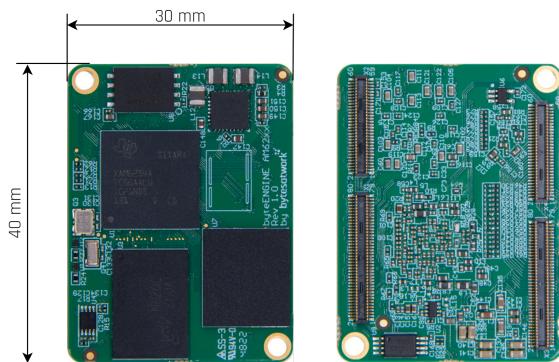


# byteENGINE AM62x

industrial computing module



## DIMENSIONS

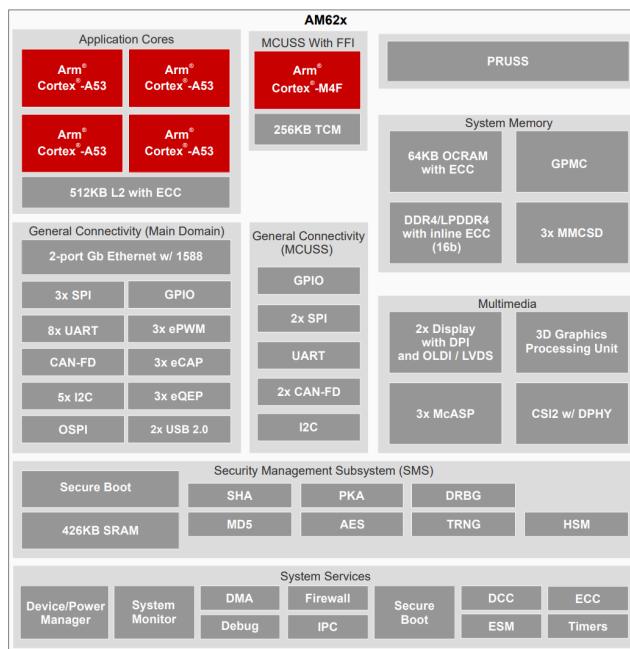


## FEATURES

Industrial-grade reliability paired with a powerful 3D graphics core, high-speed memory, dual display interfaces and advanced security features to meet the needs of industry 4.0.

- Up to Quad core ARM Cortex®-A53 and Cortex®-M4F MCU
- Powerful 3D Graphics Core with rich display capabilities
- Flexible connectivity with extensive peripheral and networking options
- High-speed LPDDR4 memory interface.
- Small format, high performance.
- Secure boot and hardware security module.

## BLOCK DIAGRAM



## USE CASES

- Human Machine Interfaces (HMI)
- Medical equipment, Patient monitoring, Portable medical devices
- Appliance user interface and connectivity
- EVSE / Vehicle to Infrastructure (V2X)
- Industrial Gateway
- Industrial Automation
- Smart Meter

## MODULE SPECIFICATION

<b>CPU</b>	Up to Quad core 64-bit ARM Cortex® A53 of TI AM62x CPU Family
<b>Co-CPU</b>	Cortex® M4F MCU 400 MHz
<b>Frequency</b>	Up to 1.4 GHz
<b>Memory</b>	256 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>	40 x 30 x 4 mm
<b>Connector</b>	2x 80 PIN and 2x 60 PIN
<b>Software Support</b>	Yocto Linux, Debian, Zephyr RTOS and more
<b>Interfaces</b>	Ethernet, SPI, GPIO, UART, CAN-FD, I2C, OSPI, ePWM, eCAP,eQEP,US
<b>GPU</b>	IMG AXE1-16
<b>Display</b>	Dual Display support, 2K @ 60FPS
<b>Safety Features</b>	Prepared for functional safety applications
<b>Longevity</b>	Yes

## YOUR CUSTOMIZED MODULE

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



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Help

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Further Product Information

AM62x Modules

