

Flexible structure, easy to adapt to your project, short time-to-market, rapid prototyping.

Maximum flexibility and simplicity

- › The byteDEVKIT AM62xx enables you to work on your own projects while shortening time-to-market significantly. It is engineered for a huge variety of applications and the flexible structure allows easy implementations of even profound changes. The byteDEVKIT AM62xx is available with the complete AM62xx-family:
 - AM6231, AM6232, AM6234
 - AM6251, AM6252, AM6254

Low consumption & high performance

- › The ARM Cortex-CPUs from Texas Instruments are on the cutting edge of their industry thanks to the combination of functional integration, performance and extremely low power consumption.

Two in one

- › The byteENGINE AM62xx features up to four Cortex-A53 cores for exceptionally high system performance. The Cortex-M4 core enables real-time applications with low performance at the same time.

Plenty of possibilities

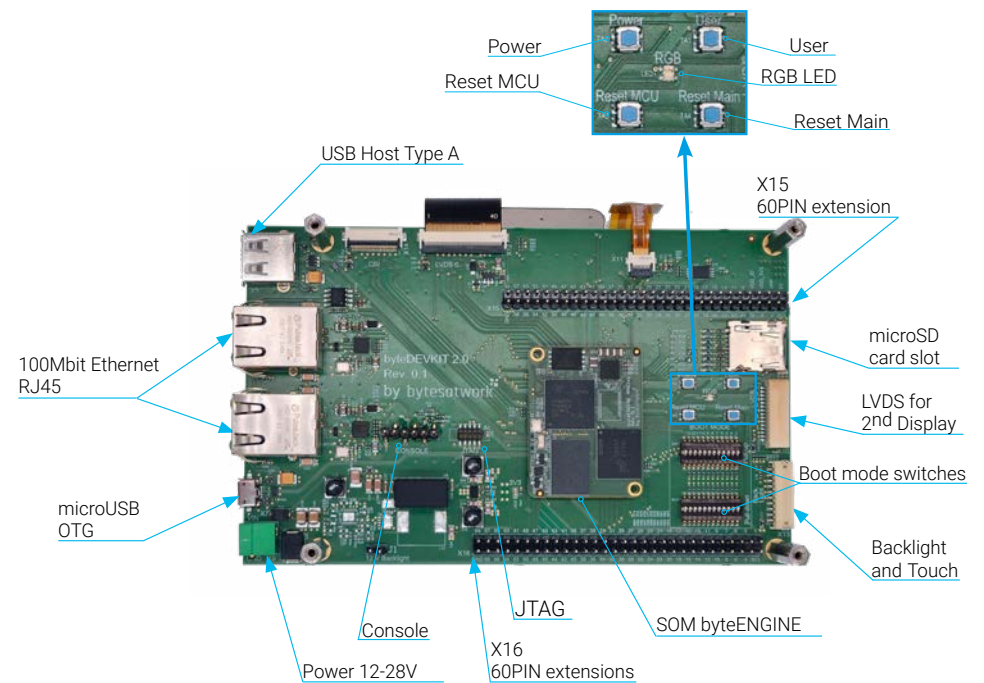
- › The base board of the byteDEVKIT- AM62xx features interfaces for a variety of applications:
 - 2x 100Mbit Ethernet RJ45
 - 1x microSD Slot
 - 1x USB Host Type A
 - 1x USB OTG microUSB
 - 5-Zoll LVDS Touchscreen Display
 - Extension connector for second Display
 - 2x 60PIN Header
 - X15: LCD, OSPI, MMC2, SPI0, MCAN, MCASP
 - X16: GMPC, I2C1, MCU_I2C0, MCU_SPI0, MCU_UART0, MCU_MCANO, MCU_MCAN1, WKUP, RESET
 - Boot mode switches
 - CSI Camera 4lanes

High adaptability and flexible connectivity

- › Rapid prototyping is easy and efficient thanks to the two 60 PIN headers. The byteDEVKIT offers a variety of interfaces on its 112 PINs, such as I2C, SPI - CAN, UART, USART, PWM and GPIO.

Quality which endures

- › Our Swiss standard pays off. We only install components to the byteDEVKIT that will still be available in ten years. The byteDEVKIT is engineered with the focus on robustness and longevity.



Technical data byteDEVKIT AM62xx

CONNECTORS	2x 100MBit Ethernet RJ45
Hardware Slot	1x microSD Slot
Device Slot 1	1x USB Host Type A
Device Slot 2	1x USB OTG microUSB
Display/Touch	5-Zoll LVDS Touchscreen Display Extension connectors for 2nd Display
Connectors 60 PIN	X15: LCD, DSPI, MMC2, SPI0, MCAN, MCASP X16: GPMC, I2C1, MCU_I2C0, MCU_SPI0, MCU_UART0, MCU_MCAN0, MCU_MMCAN1, WKUP, RESET

Specification byteENGINE AM62xx



CPU	Up to Quad 64-bit ARM Cortex A53 processors
Co-CPU	Cortex@ M4F MCU 400 MHz
Memory	256 MB to 2048 MB
Flash eMMC	up to 32 GB
QSPI-NOR	8 MB
Temperature	Industrial: -40° to +85° degrees celsius, consumer: 0 to 95° C
Power	5.0 V, 4 W
Dimensions	40 x 30 x 4 mm

Decision guide byteDEVKIT AM62xx

Step1:	Select the needed CPU for the SOM > Choose with 3D-Graphics Engine: <ul style="list-style-type: none"> • Quad Core AM6254 • Dual Core AM6253 • Single Core AM6251 > Choose without 3D-Graphics Engine: <ul style="list-style-type: none"> • Quad Core AM6234 • Dual Core AM6232 • Single Core AM6231
Step2:	Select the needed flash memory type and capacity > Choose eMMC8 / 16 / 32 / 64 GB
Step3:	Select the needed RAM capacity > Choose 512 / 1024 / 1536 / 2048 MB
Step4:	Select the needed temperature range > Choose consumer or industrial
Step5:	Select the needed display > Choose with or without

Ready to start and use

The byteDEVKIT package comes ready to start building, which includes a power-supply, a serial console and a microSD card with pre installed embedded Linux. As a result, you benefit from rapid prototyping, maximum flexibility and a very short time-to-market.

Ordering Info

> For ordering please use the following code:

byteDEVKIT 0.1-AM62[TYPE]-[SPEED]-[RAM]-[FLASH]-[temp range]-[revision]-[display]

byteENGINE-AM62[TYPE]-[SPEED]-[RAM]-[FLASH]-[temp range]-[revision]-[display]

[SOM]:	SOM type	bE: byteENGINE
AM62xx[TYPE]:	CPU type	AM6231, AM6232, AM6234, AM6251, AM6252, AM6254
[SPEED MHz]:	Clock speed	1.4 GHz
R[xxx MB]:	RAM size	512, 768, 1024, 1536, 2048 MB
[E/GB]:	eMMC flash size	8, 16, 32, 64 GB
[C, I]:	Temperature range	[C] Customer 0° to +95° Celsius, [I] Industrial -40° to +85° Celsius
[display]	Display	with display without display

