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# armStone™ A9

SBC in PicoITX form factor with NXP i.MX6 CPU



For the start of the development, we recommend:

## Starterkit armStone™ A9 Linux

[\(/en/products/starterkits/starterkit-armstonea9-linux/\)](/en/products/starterkits/starterkit-armstonea9-linux/)

299,- €

Tax not included



armStoneA9-V1-LIN, cable kit, 7" EDT RGB TFT with resistive touch incl. adapter and cables, access data to documentation and software

## Starterkit armStone™ A9 Windows

[\(/en/products/starterkits/starterkit-armstonea9-windows/\)](/en/products/starterkits/starterkit-armstonea9-windows/)

299,- €

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armStoneA9-V1-WEC7, cable kit, 7" EDT RGB TFT with resistive touch incl. adapter and cables, access data to documentation and software

### The SBC...

## Applicable without Base Board

The advantage of Single Board Computers (SBC) is, that they can be applied without a base board, and therefore they are especially suited for quick "Time-To-Market". The armStone™ A9 runs on the NXP i.MX6 Quad-Core ARM Cortex-A9 CPU (NEON, FPU, OpenGL/ ES 2.x, 3D, MPEG4).

## Long Term Availability

A highlight of this CPU is its long availability for more than 15 years (NXP Product Longevity Program).

## Various Interfaces

The armStone™ A9 is equipped with up to 4GByte DDR3 SDRAM, some GByte Flash and Gigabit Ethernet. Further interfaces are 4x USB 2.0 Host, USB 2.0 Device, CAN, I²C, SPI, Audio, SDIO, PCIe and serial interfaces.

### ...with convincing equipment

For display control, 2-channel LVDS (up to WUXGA -1920 x 1200), RGB (up to SVGA) and HDMI/ DVI (up to HD1080) are available simultaneously (with different content also).

For the connection of a touch panel (resistive and capacitive), the touch controller board with I²C is used.

A supply voltage of 5V (8-14V) causes a power consumption of about 3W, so the armStone™ A9 can be applied without a fan or cooling device; allowing an unprecedented combination of high-end computer graphic at simultaneously extremely low power loss.

## Multimedia CPU

The i.MX6 CPU is also available with Single- and Dual-Core in the same body. So further versions of the armStone™ A9 in different performance classes will be disposable soon. Especially for multimedia, additional hardware units are available in i.MX6 (OpenGL/ ES 2.x, 3D with OpenCL, OpenVG 1.1), relieving the CPU significantly, and having a positive effect on fluid displaying and low power consumption.

**Product** [\(/en/products/armstone/armstonea9/#panel-1\)](/en/products/armstone/armstonea9/#panel-1)

[Variants \(/en/products/armstone/armstonea9/#panel-2\)](/en/products/armstone/armstonea9/#panel-2)

[Starterkits \(/en/products/armstone/armstonea9/#panel-3\)](/en/products/armstone/armstonea9/#panel-3)

[Accessories \(/en/products/armstone/armstonea9/#panel-4\)](/en/products/armstone/armstonea9/#panel-4)

[Linux \(/en/products/armstone/armstonea9/#panel-5\)](/en/products/armstone/armstonea9/#panel-5)

[Windows \(/en/products/armstone/armstonea9/#panel-6\)](/en/products/armstone/armstonea9/#panel-6)

[Documents \(/en/products/armstone/armstonea9/#panel-7\)](/en/products/armstone/armstonea9/#panel-7)
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## armStone™ A9

State	Production
<b>CPU</b>	
CPU	NXP i.MX 6
Core	ARM Cortex-A9
No of Cores	Solo/Dual/Quad
Frequency	max. 1.2GHz
L2-Cache	max. 1MB
GPU	2D 600Mpix/s OpenVG 300Mpix/s OpenGL 176Mtri/s, 1Gpix/s
Video Decode	1080p60
<b>Operating System</b>	
Linux	Buildroot Yocto
Windows	WEC 7 WEC 2013
<b>Memory</b>	
Flash	max. 1GB
RAM	max. 4GB
<b>Interfaces</b>	
SD-Card	1x on-board
Ethernet	1x 10/100/1000Mb IEEE1588
USB Host	4x
USB Device	1x
CAN	1x
UART	3x
I2C	1x
SPI	1x
Audio	Line In/Out/Mic
Digital I/O	max. 66
Touch Panel	4/5-wire, analog resistive and PCAP Touch via I2C
PCIe	1x
SATA	1x
<b>Display</b>	
RGB	18bit
LVDS	2x 18bit/24bit
CRT/DVI	0/DVI

**Common**

Supply Voltage	5V/8-14V DC/±5%
Power Consumption	4W typ.
Operating Temperature	0°C - +70°C opt. -20°C - +85°C
Size	100x72x15mm (lxbxd)
Weight	~60g
Long Term Availability	2029

**Support**

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