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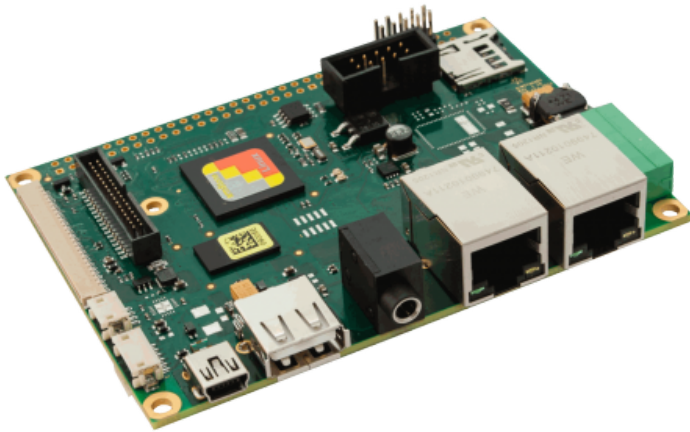Welcome (/en/)   Products   Support   Contact us   About F&S

armStone™A5

SBC in PicoITX form factor with NXP Vybrid CPU

For the start of the development, we recommend:

**Starterkit armStone™A5 Linux
(/en/products/starterkits/starterkit-armstonea5-linux/)**

179,- €
Tax not included

armStoneA5-V2-LIN, cable kit, 7" EDT RGB TFT with resistive touch incl. adapter and cables, access data to documentation and software

**Starterkit armStone™A5 Windows
(/en/products/starterkits/starterkit-armstonea5-windows/)**

179,- €
Tax not included

armStoneA5-V2-W13, cable kit, 7" EDT RGB TFT with resistive touch incl. adapter and cables, access data to documentation and software

☐ ☐ ☐

The SBC...

Highlight Features

- Cortex-A5 500MHz
- Cortex-M4 167MHz
- 1 GB Flash
- 512 MB RAM
- LVDS or RGB

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".

Asymmetric Multiprocessing

The basis of the armStone™A5 is the Dual-Core CPU (Asymmetric Multiprocessing) by NXP. The Vybrid CPU is suitable for industrial environments and is long-term available (10 years and more). It owns two cores: Cortex-A5 - 500MHz and Cortex-M4 - 167MHz. Functions such as 2D acceleration and Window-Layer, FPU, as well as NEON are also available.

...with convincing Equipment

The armStone™A5 can be equipped with up to 512Mbyte DRAM and up to 1GByte Flash, but 128Mbyte NAND Flash are already enough to boot a complete Windows Embedded CE or Linux directly from Flash.

Various Interfaces

Optionally, the board can be upgraded with a micro-SD card.
The board offers interfaces like USB Host/Device, 2x LAN, 3x RS232, 2x CAN, SPI, I²C, Audio (IN/ OUT/ MIC) partly on standard connectors or on plug connectors.

Additionally, a LVDS interface is available (max. resolution up to XGA) or as an alternative, a RGB interface up to SVGA. Touch panel interfaces for resistive and also capacitive touch are offered as well.

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Starterkits (/en/products/armstone/armstonea5/#panel-3)   Accessories (/en/products/armstone/armstonea5/#panel-4)

Linux (/en/products/armstone/armstonea5/#panel-5)   Windows (/en/products/armstone/armstonea5/#panel-6)

	armStone™A5
State	production

CPU

CPU	NXP Vybrid
Core	ARM Cortex-A5 + Cortex-M4
No of Cores	Single-/Dual-Core
Frequency	max. 500MHz & 167MHz
L2-Cache	512KB
GPU	NEON

Operating System

Linux	Buildroot
Windows	WCE 6.0 WEC 7 WEC 2013
Real Time	MQX

Memory

Flash	max. 1GB
RAM	max. 512MB

Interfaces

SD-Card	1x microSD on-board
Ethernet	2x 10/100Mb IEEE 1588
USB Host	1-2x
USB Device	1x
CAN	1-2x
UART	3x
I2C	1-2x
SPI	1x
Audio	Line In/Out/Mic
Digital I/O	max. 66
Touch Panel	4-wire, analog resistive; PCAP-Touch via I2C

Display

RGB	18Bit
LVDS	18Bit

Common

Supply Voltage	5V/8-14V DC / ±5%
Power Consumption	3W typ.
Operating Temperature	0°C - +70°C opt. -25°C - +85°C

Size	100x72x15mm (lxbxd)
Weight	~55g
Long Term Availability	2023

Support

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