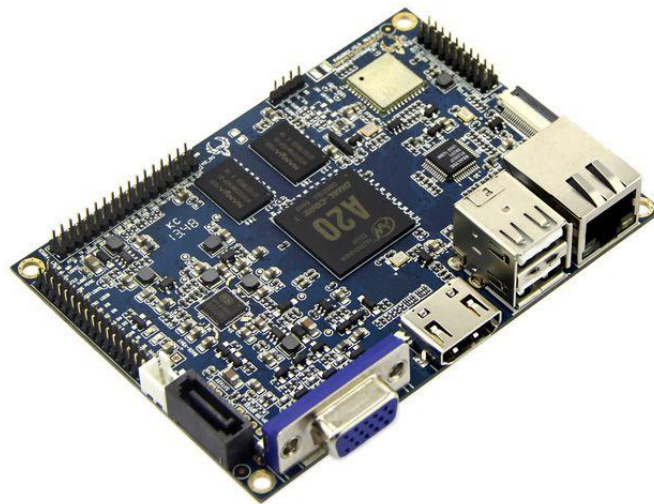


## SEEED- 102990089

### PhoenixA20 - First ARM A7 Pico-ITX board



## PRODUCT DETAILS

PhoenixA20 is the first open source code Pico-ITX arm motherboard base on Allwinner A20 processor. A20 is one of the popular processors using in the MID or TV box. It integrates two ARM Cortex-A7 processors and two mali400 graphic processors .It is one of the most powerful video decoding application processor in the world. PhoenixA20 also integrate most of the common use interface and make it very suitable for product prototype designed, DIY and education.

### Specification

CPU	ARM Cortex-A7 dual-core
GPU	ARM mali400 mp2
Memory	1G Bytes DDR3

	<p>4G Bytes On board Nand Flash</p> <p>32G Bytes Micro SD card(expansion)</p>
Video	<p>UHD 2160P video decoding</p> <p>3D video decoding</p> <p>Support various video decoding formats, including VP8, AVS, H. 264 MVC, VC-1, MPEG-1,2,4, etc</p> <p>H.264 HP video encoding up to 1080p @ 30 fps or dual-channel 720p @ 30 fps</p>
Display Interface	<p>HDMI</p> <p>VGA</p> <p>LVDS(expansion)</p> <p>RGB(expansion)</p> <p>CVBS(expansion)</p>
Camera Interface	<p>CSI</p>
Net	<p>10/100M Ethernet</p> <p>WIFI</p> <p>Bluetooth 4.0</p>
Extended Pins	<p>4×UART,2×IIC,1×IIS,1×CVBS,4×TVIN,2×Line IN,1×SPDIF,2×PWM,2×LRADC,2×FMIN,1×Headphone,4×TVOUT,MIC,IR,TP</p>
OS	<p>Android 4.2 or up</p> <p>Ubuntu 13.10</p> <p>Debian 7</p>

	Linux3.3 or up
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## Application

- Digital signage and online advertising machine
- Digital acquisition system
- IP camera
- Multimedia center
- Car multimedia
- DIY
- Android & Linux development

## Packing list

- Main board × 1
- USB to 2.54mm DC jack cable × 1
- USB A-A cable × 1
- 2.0mm to 2.5 mm cable (serial debug) × 1

## Documents

- [Wiki page](#)
- [Source Code](#)