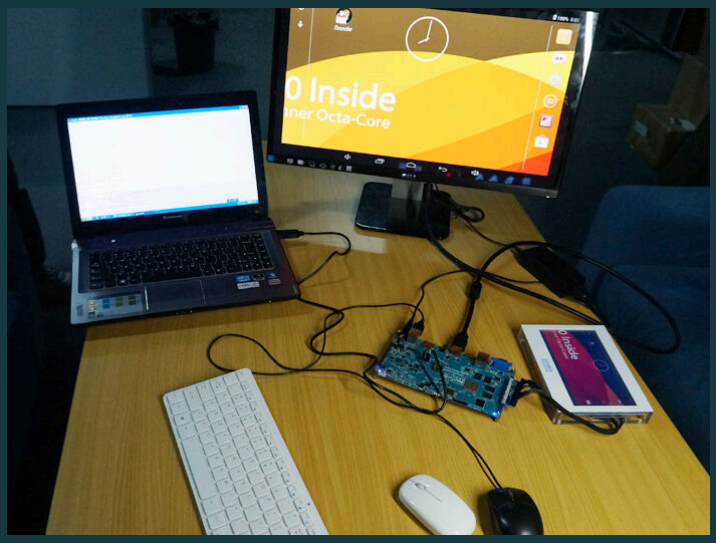
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INDUSTRIAL PRODUCT DATASHEET

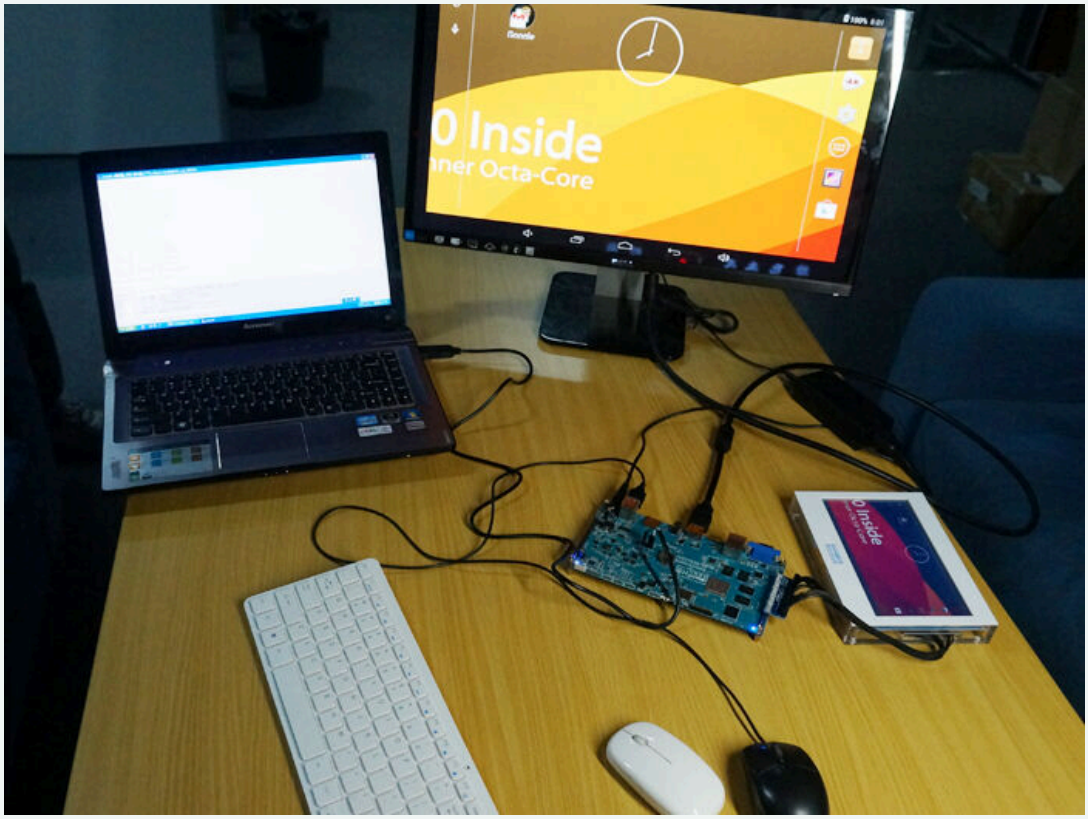
Hummingbird 8Core CPU 64Core GPU 2GB DDR3 8GB EMMC

Hummingbird 8Core CPU 64Core GPU 2GB DDR3 8GB EMMC: a compact developer board delivering octa-core processing, 64-core graphics, 4K video, and versatile connectivity for multimedia and PC applications.

SKU	UPDATED	PRICE
102110009	2024-08-09 02:02:38	$135.00(Excl. VAT)



Overview



The Hummingbird A80 H8 is a mini PC board based on the Allwinner Ultra-Octa A80 processor with an octa-core ARM big.LITTLE Cortex-A15/A7 CPU and PowerVR G6230 GPU, providing PC-like functionality. It features 2GB DDR3 RAM, 8GB eMMC storage, 4K video decoding/encoding, HDMI/VGA output, Gigabit Ethernet, Wi-Fi/Bluetooth 4.0, USB 3.0 OTG, and supports Android 4.4.2 or Linux 3.4 for multimedia, gaming, and general computing tasks.

Key Features

A80 Hummingbrid H8 is a mini board based on A80, there are two USB hosts, an 3.0 OTG, a Gigabit Ethernet , a WIFI/BT4.0 as well as line in and HDMI HD video output besides VGA output. It has all the basic functions of a PC when connect TV and keyboard, such as preadsheets, word processing,play games and HD videos etc.

A80 Hummingbrid H8 on Allwinner Ultra-
Octa A80 processor. A80 processor enriched with interfaces, including HDMI，EDP，LVDS/RGB LCD,USB & GMAC.

A80 processor applies the Ultra-Octa core ARM big.LITTLE Cortex-A15/A7 structure, both efficient of the Cortex-A15 and energy-saving of Cortex-
A7. Equipped with POWERVR G6230 GPU, which is not only improves the system performance, but also satisfy the excel

In addition, A80 supports 4K*2K@30fps decoding，4K*2K@30fps coding and HD 1080p@120fps coding.

Features：

●Software features

Driver support: LCD, Touch Screen, UART, Gigabit Ethernet, HDMI, EDP, etc

Support from emmc Flash, SD card startup guide.

Default Android4.4 system, and provide Linux 3.4 source code

Linux OS Features:

Linux version: linux 3.4

Android OS Features：

Android Version: android 4.4.2 and above

●Highlights Of A80

The main specifications of A80 UltraOcta -core mobile application processor are as following:

-octa-core big.LITTLE Cortex®-A15/A7 CPU structure

-PowerVR G6230 GPU

-H.265/VP9 1080P@30fps video playback

-H.264/VP8 4K*2k@30fps、1080p@120fps or 720p@240fps video encoding.

-3840x1080@30fps 3D codec, support BD/SBS/TAB/FP format

- built-in HDMI, an LVDS, etc

- The highest 16 m CMOS sensor

- Through Google CTS test, GMS in the grant application

- support Android 4.4.2 operating system

Strong ability of high-definition video processing

A80 processor supports 4096*2048@30fps video playback，4096*2048@30fps video coding，

1080p@120fps/720p@240fps video coding, provide users a better experience.

High level of integration

High level of integration has been one of the highlights of SoC products, A80 is no exception, the platform integrates an LVDS, HDMI, EDP to make the system design simpler and BOM cost more competitive, products to market more quickly.

Prospect and Purpose

Due to the expansion interfaces of optimus development system are much

more than some other similar products, and it has got global high attention. Thus

making it very powerful, rich social environment and market value. The more people participate, the more rapid development, the greater the potential market, followed by the more purposes. Currently, besides the children's education above-mentioned,it also can be used as basic computer, home theater HD player etc.

●Following uses:

· multimedia player

· PlayStation

Specification：

Documents:

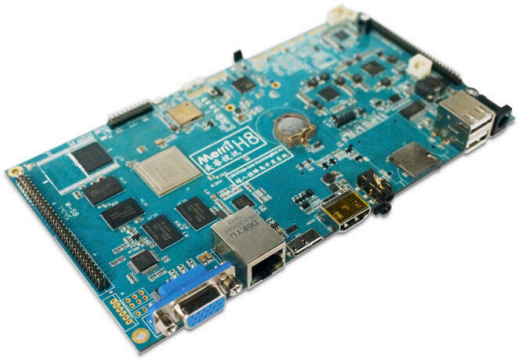
1. **Brief introduction of A80 Hummingbird**
2. **H8 Linux sestem code**
3. **A80-H8-VGA software patches**
4. **Hummingbird image**
5. **Instruction of A80 H8 development system**

For any technical support or suggestion, please kindly go to our **forum**.

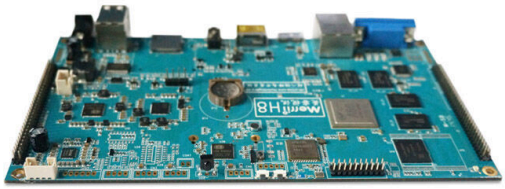
Product Gallery

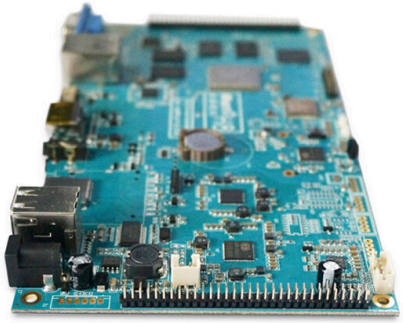




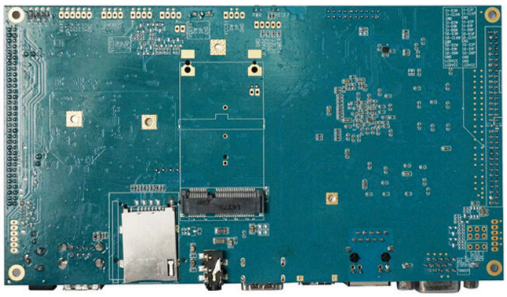












Compliance & Logistics

HSCODE

Resource Links

- https://www.seeedstudio.com/Hummingbird-8Core-CPU-64Core-GPU-2GB-DDR3-8GB-EMMC-p-2227.html

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