



# **Basic OTT Box Solution**



#### H.265/HEVC 1080P Video Playback in Hardware

Allwinner H2 is a highly cost-efficient quad-core OTT box processor that supports H.265/HEVC 1080P video decoding in hardware. To deliver the best video entertainment experience, H2 can decode H.265/HEVC 1080P video to 30fps, H.265/ H.264 1080p video to 60fps



## Allwinner's Next-Gen SmartColor Display Technology

Allwinner H2 comes with its next-gen SmartColor display technology to deliver more vivid and eye-pleasing visual effects for still images and videos.



#### **Higher System Integration**

H2 quad-core integrates a wide range of connectivity and interfaces to make the total cost more competitive, including HDMI, CVBS, audio codec, four USB ports, EMAC+PHY, etc.



#### **Security System**

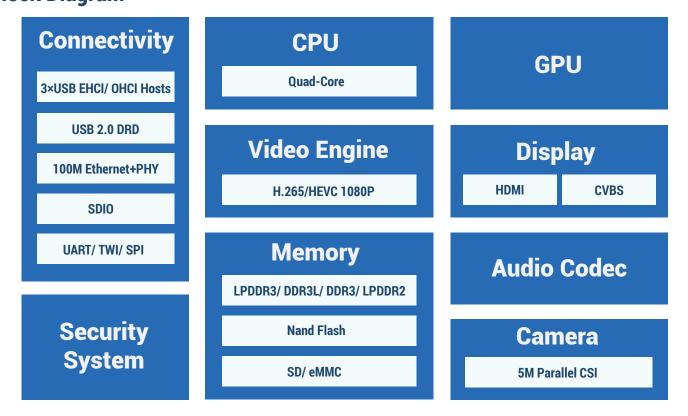
H2 implements a Trustzone-based security system. It supports various DRM solutions to protect UHD 1080P contents, and supports functions such as secure boot, firmware protection with signature and verification, and secure storage to ensure the system security and reliability.



## **Premium Video Call Experience**

H2 solution can deliver outstanding video call experience: CSI camera supports up to 1080p@30fps, and USB camera supports up to 720p@30fps.

## **Block Diagram**



# **Features and Specifications**

CPU	· Quad-core Cortex-A7
GPU	· Mali400MP2 GPU · Supports OpenGL ES 2.0
Memory	· Supports LPDDR2/ LPDDR3/ DDR3 / DDR3L SDRAM · Supports 8-bit SLC/MLC/TLC/EF NAND with 64-bit ECC · Supports SD/eMMC/tSD/fSD/efSD
Video	<ul> <li>Supports H.265/HEVC 1080P@30fps video decoding</li> <li>Supports multi-format 1080p@60fps video decoding, including H.264 BP/MP/HP, VP8, MPEG1/2, MPEG4 SP/ASP GMC,H.263 including Sorenson Spark, WMV9/VC-1, JPEG/MJPEG, etc</li> <li>Supports H.264 1080p@30fps video encoding</li> </ul>
Display	Supports HDMI output with HDCP     Supports HDMI CEC     Supports HDMI 3D function     Integrated CVBS     Supports simultaneous output of HDMI and CVBS
Camera	· Supports 8-bit YUV422 CMOS sensor interface · Supports CCIR656 protocol for NTSC and PAL · Supports 5M pixel camera sensor · Supports video capture resolution up to 1080p@30fps
Security System	Trustzone based security architecture     Supports mainstream DRM solutions     Supports secure boot/secure storage     Supports firmware signature and verification, supports version management
Integration	· Audio codec · 3 x USB EHCI/OHCI Hosts, USB 2.0 DRD · 100M Ethernet PHY · CIR, UART, LRADC, SDIO · Integrated CVBS

#### **ABOUT ALLWINNER**

Allwinner Technology is a leading fabless design company dedicated to smart application processor SoCs and smart analog ICs. Its product line includes multi-core application processors for smart devices and smart power management ICs used by brands worldwide. With its focus on cutting edge UHD video processing, high performance multi-core CPU/GPU integration, and ultra-low power consumption, Allwinner Technology is a mainstream solution provider for the global tablet, internet TV, smart home device, automotive in-dash device, smart power management, and mobile connected device markets. Allwinner Technology is headquartered in Zhuhai, China.

#### **CONTACT US**

For more product info, please contact service@allwinnertech.com, or scan the QR code to follow us on Wechat.

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