

Android 10 Allwinner Quad Core H313 Multi-Core G31 1080P X96Q 1080P

<p>1080P</p>	
<p>1080P</p>	<p>X96Q</p>
<p>1080P</p>	<p>Allwinner H313 Quad Core ARM Cortex A53</p>
<p>GPU</p>	<p>G31 MP2 1080P OpenGL ES 3.2/2.0/1.0, 1080P 1.1, OpenCL 2.0</p>
<p>RAM</p>	<p>DDR3:1GB (1080P:2GB)</p>
<p>1080P</p>	<p>eMMC:8GB(1080P:16GB)</p>
<p>1080P</p>	<p>10.0</p>
<p>1080P</p>	<p>IEEE 802.11b/g/n</p>
<p>1080P</p>	
<p>1080P</p>	<ul style="list-style-type: none"> 1080P H.265 Main10@L5.1 1080P 4K@60fps 1080P VP9 Profile 2 1080P 4K@30fps AVS2 JiZhun 1080P 10 1080P 4K@30fps 1080P H.264 BP/MP/HP@L4.2 1080P 4K@30fps 1080P 1080p@60fps 1080P H.264 BP/MP/HP, H.263 BP, VP8, MPEG-1 MP/HL, MPEG-2 MP/HL, MPEG-4 SP/ASP@L5, AVS/AVS JiZhun, WMV9/VC1 1080P H.264 BP/MP/HP 1080P 1080p@60fps 1080P JPEG 1080P 1080p@60fps
<p>1080P</p>	<ul style="list-style-type: none"> 1080P DAC 1080P 1080P 1 1080P (Differential LINEOUTP/N 1080P single-end LINEOUTL/LINEOUTR) 1080P Audio HUB 1080P 1080P 3 I2S/PCM (I2S0 1080P, I2S2 1080P BT, I2S3 1080P) 1080P I2S 1080P, 1080P I2S 1080P, 1080P PCM 1080P TDM 1080P I2S 1080P 8 1080P 32 1080P/192kbit 1080P I2S 1080P TDM 1080P 16 1080P 32 1080P/96kbit 1080P OWA OUT 1080P 16-/20-/24 1080P 1080P (DMIC) 1080P PDM 1080P 8 1080P
<p>1080P</p>	
<p>1 * HDMI</p>	<p>1080P 4K*2K UHD, HDMI 2.0a 1080P 4K@60fps</p>
<p>1 * 1080P</p>	<p>1080P 480i/576i</p>
<p>2 * 1080P</p>	<p>1 * 1080P USB, 1 * 1080P</p>
<p>1 * 1080P IR</p>	<p>1080P</p>
<p>1*RJ45</p>	<p>1080P</p>
<p>1 * 1080P TF</p>	<p>1080P 4GB/8GB/16GB/32GB/64GB</p>
<p>1080P</p>	<p>1080P 5V/2A ;1080P. 1080P: 1080P</p>
<p>1080P</p>	
<p>1080P</p>	<p>HD JPEG, BMP, GIF, PNG, TIF</p>
<p>1080P</p>	<p>1080P 1080P 1080P 1080P 1080P</p>
<p>1080P</p>	<p>1080P Netflix, Hulu, Flixster, Youtube 1080P</p>
<p>1080P</p>	<p>1080P Android Market, Amazon App Store 1080P</p>
<p>1080P</p>	<p>1080P HDD, 1080P U, 1080P TF</p>

allwinner H313 1080P SoC 1080P 64 1080P 4K@60fps 1080P Allwinner 1080P OTT 1080P IPTV 1080P CortexTM-A53 1080P Quad Core 64 1080P G31 GPU 1080P ARM 1080P OpenGL ES 3.2/Vulkan 1.1 1080P H313 1080P Ultra-HD H.265 4K@60fps 10 1080P SmartColor3.3TM 1080P Allwinner 1080P Dolby 1080P DTS

1080P:

- Quad Core ARM CortexTM-A53 1080P 64 1080P
- G31 GPU 1080P OpenGL ES 3.2/Vulkan 1.1
- 1080P H.265 4K@60fps

- H.264 1080p@60fps
- HDR10, HLG
- SmartColor™ 3.3

High Definiton Picture **4K STB**

Allwinner H313	CPU Cortex A53	GPU Mali G31	HEVC H.265	4K 60fps		WiFi 2.4G
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Product comparison

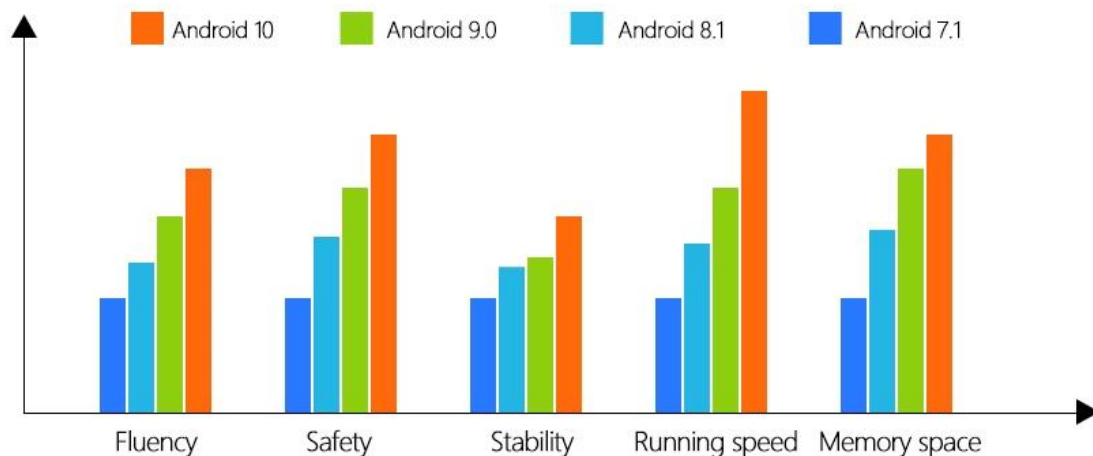
Chip Parameter	H313	RK3229 / RK3228A	H3	S905W
CPU	Quad Core Cortex-A53	Quad core Cortex-A7	Quad-core Cortex-A7	Quad Core Cortex-A53
GPU	Mali G31 OPenGL 1.0/2.0/3.2	Mali 400 OpenGL ES 1.1/2.0	Mali 400 OpenGL 2.0	Mali-450 OpenGL ES 2.0
H.265 decoding	4K@60fps	4K@30fps	4K@30fps	4K@30fps
OS	Android 10	Android 7.1	Android 9.0	Android 7.1
Frequency	1.35GHz	1GHz	1GHz	1.2GHz
Run Score	42417	15503	19165	17193

* The running score data is only a single test result of professionals

Android 10

First to support Google 's new system Android 10, and greatly optimized for the system, can support a minimum of 1GB of memory

feature	IOS	Android 10
Fluency		The system natively supports Vulkan 3D technology. Android 10 UI preferentially uses Vulkan for drawing, which has higher efficiency and lower load.
Safety		File encryption technology based on Google Adiantum algorithm, enabled by default to avoid data leakage caused by Flash
Stability		Smarter background memory management technology (LMKD-PSI), small memory application, faster killing process, foreground process is less affected by background process
Running speed		Virtual machine code optimization to improve execution efficiency
Memory space		New dynamic partitioning technology, flexible allocation of Flash partitions, saving storage space



* Data analysis chart is for reference only

GPU low power consumption, high performance density, no pressure to play games

GPU: support Vulkan, support OpenGL ES3.2

Mali-G31: Exceptional User Experience in the Smallest Area
 Bringing the Bifrost architecture to Ultra Efficient devices.

GPU

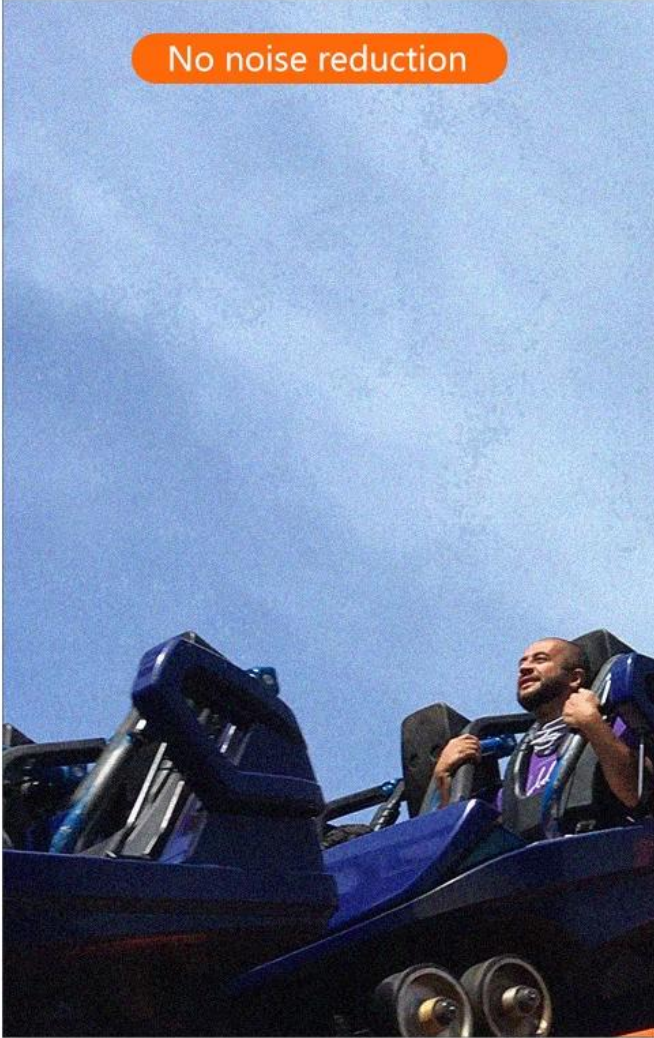


CPU	H313	RK3318	S905W	RK3229/RK3228A	H3
GPU framework support	Vulkan OpenGL3.2	OpenGL2.0	OpenGL ES2.0	OpenGL ES1.1/2.0	OpenGL2.0



3D noise reduction, more thorough image, more delicate and pure picture

No noise reduction



Noise reduction



Debounce, more stable image and smoother viewing



HDR to SDR

SmartColor™ optimized HDR dynamic curve for better HDR video experience.



Other models: dark sky background



Our model: clear sky background

Clear is not enough, we need to be clearer

The new-generation SmartColor™ 3.1 image quality engine and 14 image quality improvement algorithms bring consumers the best large screen experience. It can achieve 4K / 60fps video, vertical keystone correction, and does not occupy any CPU / GPU resources.

Clear



Android 10, new dynamic partitioning technology, more user storage space

You can choose and install different applications according to your personal preferences to meet your diverse needs.



Faster & Safer response



Save 20% RAM in Space



More stable with applications





ENJOY BIG SCREEN

SUPPORT DLNA, MIRACAST, AIRPLAY

You can play games and watch movies on the big screen

Provide wired and wireless networks

Support WiFi and network cable connection, and support USB local playback, convenient and easy to use



WiFi and network cable transmission signal is stable

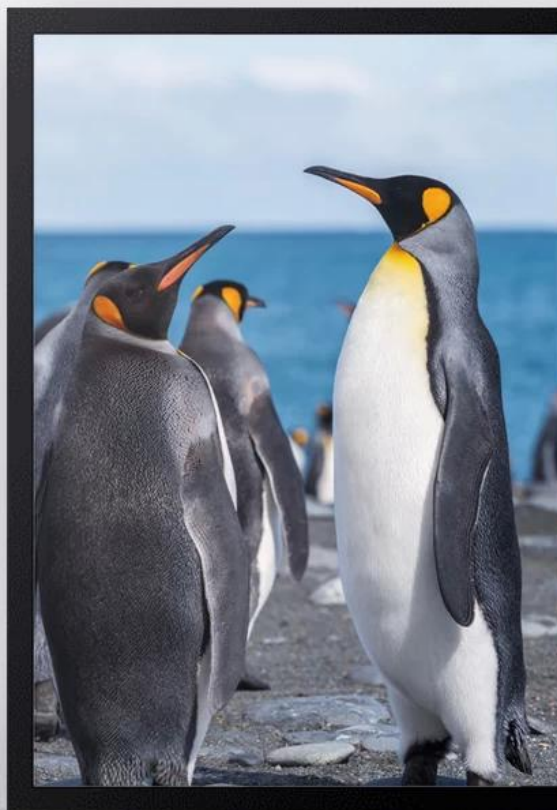


Supports the transmission and download of high-definition videos and big data files. Line installation application.



USB supports local playback and installation of applications

Connect a mobile hard disk or a USB flash drive to play local movies, and install applications such as games and videos.



Suitable for various TVs

With AV interface & HDMI interface , support a variety of LCD TVs and old TVs.



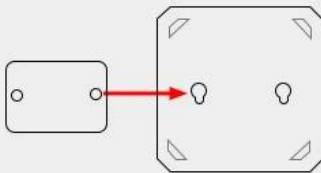
LCD TV



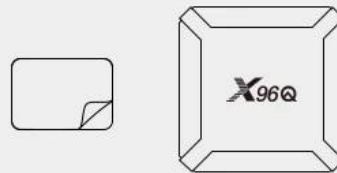
OTT TV BOX



Old TV



Hang the wall mount on the back of the device



Paste the device on the wall or the back of the TV

Rich interface, simple connection

Small interface, big effect, can meet various entertainment needs.



- ① DC: Power line interface ② ETHERNET: Network cable interface ③ HDMI: HDMI cable interface
④ AV: Plug in the AV cable and connect the old TV ⑤ IR: IR cable interface
⑥ USB: USB interface ⑦ USB: USB interface ⑧ CARD: Card slot

Package Contents



Device



Remote Control
(Battery not Included)



Power Supply



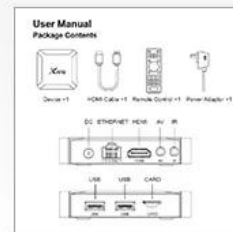
Wall Hanging



HD data cable



IR cable



User Manual

Android 10 Allwinner Quad Core H313
 Quad-core
 GPU G31

Android 10
 Android 10

G31 GPU
 4K

Android 10 Allwinner Quad Core H313 TV Box

Android 10 Allwinner Quad Core H313 TV Box
WiFi Ethernet USB HDMI

Android 10 Allwinner Quad Core H313 TV Box
HDMI

Android 10 Allwinner Quad Core H313 TV Box
[TV Box](#)