

XXXXXXXXXXXXXXXXXXXX **X96Q Android 10** XXXXXX **Soc Allwinner H313** XXXXX

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

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

Product comparison

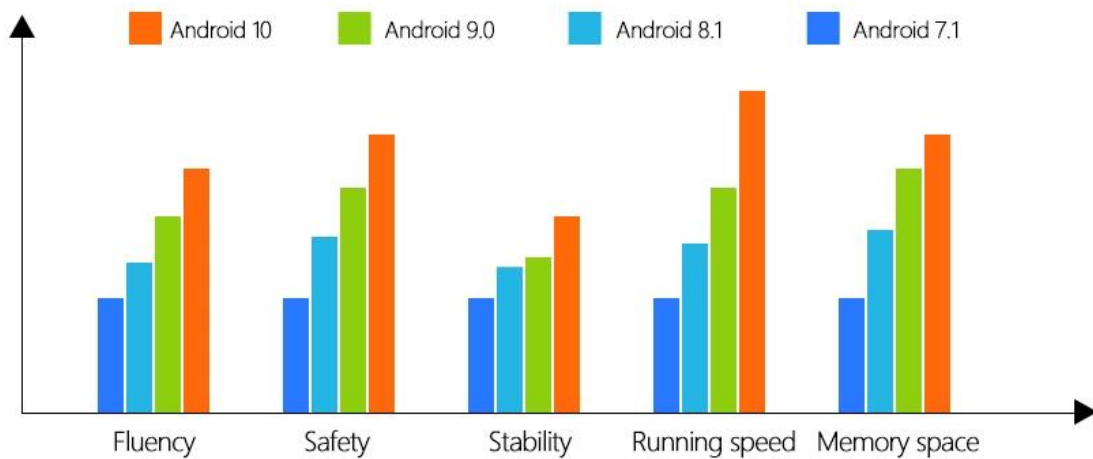
Chip Parameter	H313	RK3229 / RK3228A	H3	S905W
CPU	Quad Core Cortex-A53	Quad core Cortex-A7	Quad-core Cortex-A7	Quad Core Cortex-A53
GPU	Mali G31 OPenGL 1.0/2.0/3.2	Mali 400 OpenGL ES 1.1/2.0	Mali 400 OpenGL 2.0	Mali-450 OpenGL ES 2.0
H.265 decoding	4K@60fps	4K@30fps	4K@30fps	4K@30fps
OS	Android 10	Android 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

20%
Smaller total area

20%
Better performance density

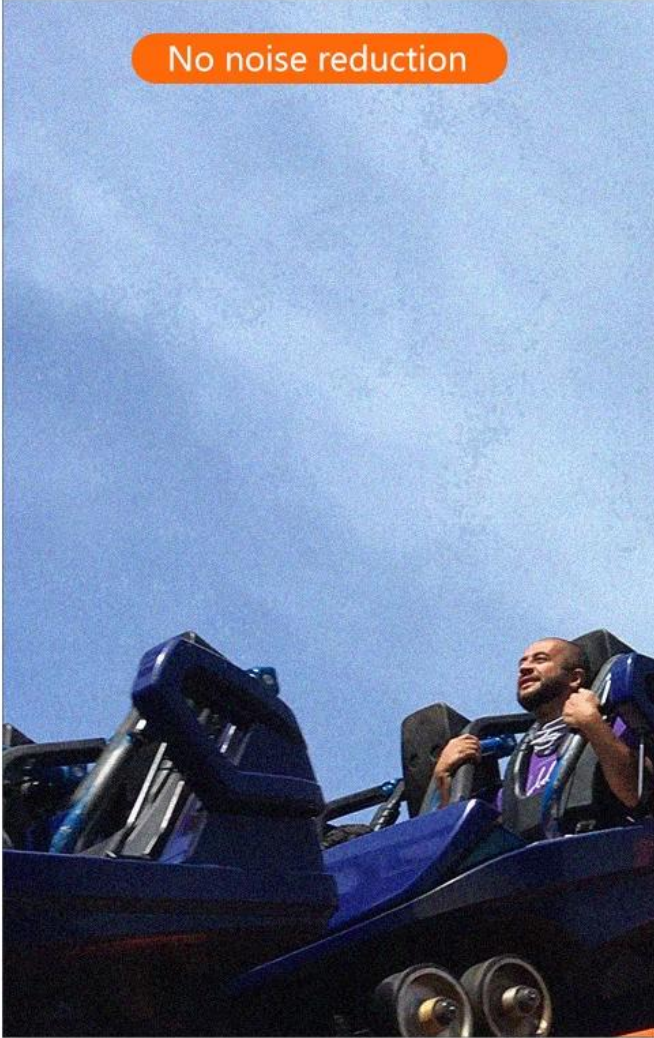
12%
Better UI performance

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.



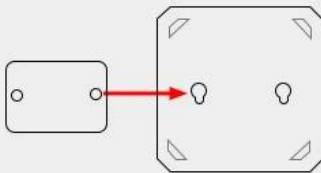
LCD TV



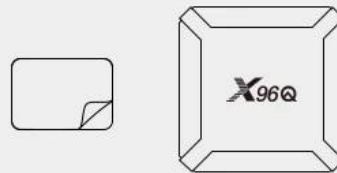
OTT TV BOX



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



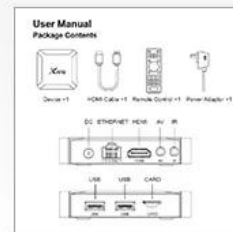
Wall Hanging



HD data cable



IR cable



User Manual

X96Q Android 10

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1. **Soc Allwinner H313:** ... Soc Allwinner H313 ...
2. **Android 10:** ... Android 10 ...
3. **4K** ... 4K Ultra HD ...

