

X96H Android 9.0 with HDMI input Allwinner H603 Quad-core 64-bit ARM Quad Core 4GB 32GB 6K4K TV Box

Specifications	
Model No.	Allwinner H603 OTT TV Box
CPU	Allwinner H603 Quad-core 64-bit ARM Cortex™ - A53
GPU	High-performance multi-core GPU Mali T720
ROM	DDR3: 4GB/2GB
Internal Storage	eMMC: 32GB(Option: 16GB/64GB)
OS	Android 9.0
WiFi	IEEE 802.11 b/g/n/ac; 2.4G/5G 2*2 mimo
Bluetooth	Bluetooth 4.1 +HS; Support Voice Remote
Video&Audio CODEC	
Video	<ul style="list-style-type: none"> • Allwinner Video Engine (AVE) with dedicated hardware decoders and encoders • Support multi-video decoder up to 4Kx2K@60fps+1x1080P@60fps • Supports multiple "secured" video decoding sessions and simultaneous decoding and encoding <p>Video/Picture Decoding</p> <ul style="list-style-type: none"> - H265/HEVC Main/Main10 profile@Level5.2 High-tier;6K@60fps, up to 6Kx4K@30fps - H264/AVC BP/MP/HP@level5.1, MVC, 4K@30fps - VP9, Profile 0/2, 4K@30fps - VP6/VP8, 1080P@60fps - MPEG1/MPEG2 SP@ML, MP@HL, 1080P@60fps - MPEG4 SP@level 0~3, ASP@level 0~5, GMC, short header format, 1080P@60fps - AVS+/AVS JIZHUN profile@level 6.0, 1080P@60fps - VC-1 SP@ML, MP@HL, AP@level 0~3, 1080P@60fps - Supports Frame Buffer Compression(FBC) - Output pixel format configurable,YUV420/YV12/NV12/... - Real-time image decoding- Maximum resolution up to 65536 x 65536 - Integrated JPEG hardware decoder - Configurable output pixel format- YUV420/YV12/NV12/...
Audio	<ul style="list-style-type: none"> • MPEG-1, MPEG-2(L1/L2/L3), MP3, AAC-LC, HE AAC V1/V2, APE, FLAC, OGG, AMR-NB, AMR-WB, G.711(u/a) decoding • G.711(u/a), AMR-NB, AMR-WB, AAC-LC encoding • 3~5m far field sound acquisition, supports speech enhancement, acoustic echo cancellation and direction of speaker estimation. • Virtual surround sound
I/O	
1*HDMI	One HDMI 2.0a TX
1*AV OUT	486i/576i standard definition output
3*USB	1* USB 3.0 1* USB 2.0 1* USB2.0 OTG
1*OPTICAL	One Optical output
1*RJ45	Ethernet Interface;Support 10/100M
1*HDMI IN	One HDMI 1.4 TX input
1*TF CARD	Support 4GB/8GB/16GB/32GB/64GB
Power	DC 5V/2A LED indicator. Working: blue
Others	
Image	HD JPEG, BMP, GIF, PNG, TIF
Language	English French German Spanish Italian etc multilateral languages
Option	Browse all video websites, support Netflix,Hulu,Flixster,Youtube, etc. Apps download freely from android market, amazon app store etc. Local Media playback, Support HDD, U Disk , TF Card.

1. 64-bit quad core ARM Cortex A53 CPU
2. High-performance multi-core ARM Mali-T720 GPU
3. High-quality H.265 4K@60fps-10bit video decoder
4. Low-latency H.264 4K@30fps video encoder
5. HDR10 and HLG video processing
6. Smartcolor3.0 Display Processing Engine
7. FDE Full Disk Encryption, Mainstream DRM
8. Various kinds of interface: USB3.0,PCIe,HDMI2.0a,Ethernet

The H6 is a high performance SoC targeted at the OTT, DVB and IPTV markets. It supports 4K@60fps-10bit

ultra-HD video decoding and low-latency H.264 4K encoding. There is also support s for HDR10 and HLG

HDR□integrated Smartcolor 3.0 display sys tem; independently de veloped proprietary IP(Intellectual

Property) by Allwinner Technology. Dolby and DTS audio processing can also be done on this processor. The H6 will set the industry benchmark in t erms of streaming compatibility, video smoothness and picture quality. It will also be c ompatible with various kinds of peripheral devices, and provides customers with flexible and mature solution.

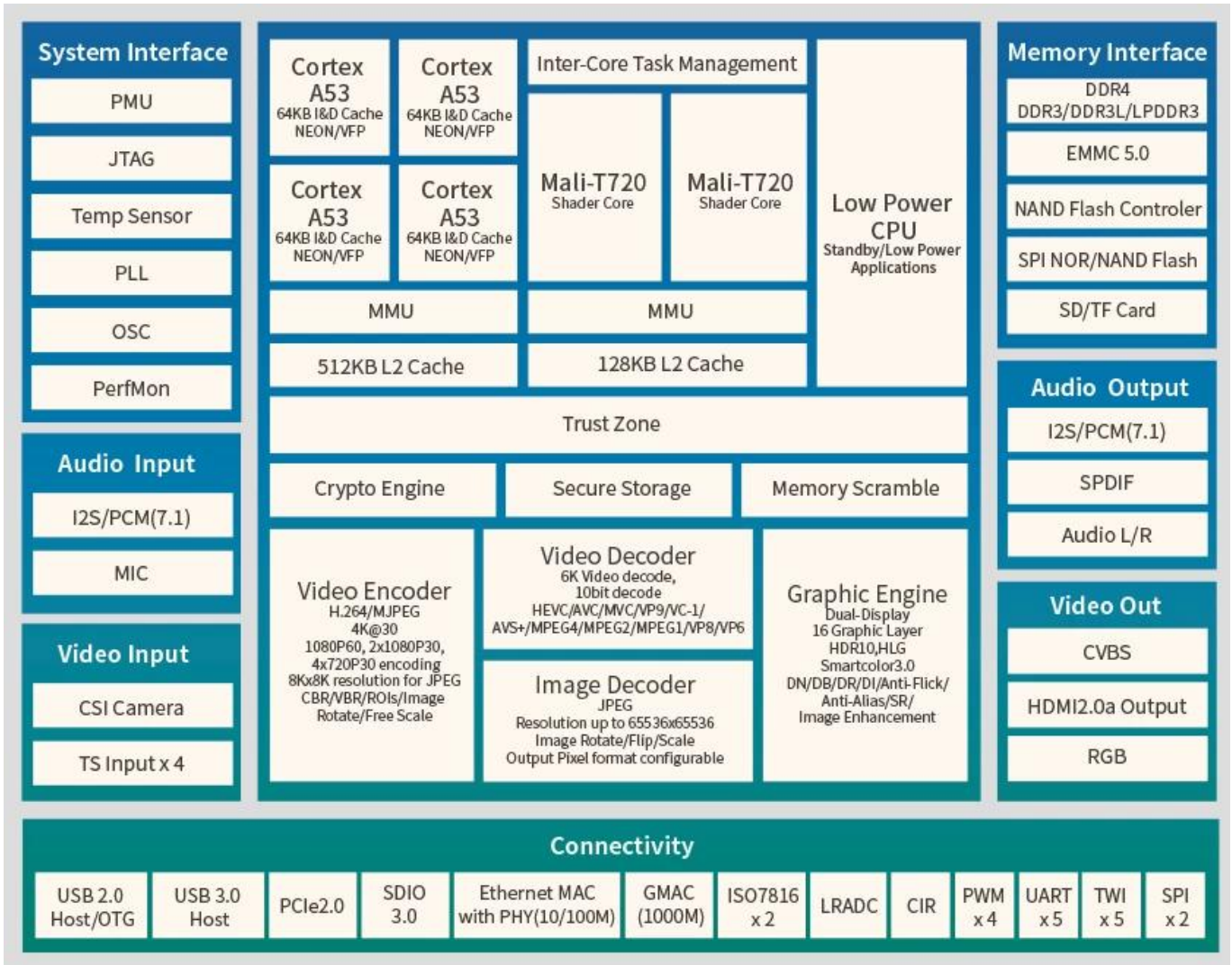
OTT TV boxes disrupt the the way we normally watch TV by using the internet to access content. Unlike traditional TV boxes that require an analogue signal, OTT TV boxes rely instead on a broadband connection. In addition to watching all the usual TV channels there is also support for a range of video streaming services. This gives the user access to a huge range of content, also thanks to it always being connected the system is easy to update. Working with experienced partners in the TV box domain Allwinner's latest OTT TV box is not only packed with features and functionality but also supports 4K. And Allwinner has already passed Dobly certification. With a customized user interface and dual Linux/Android platforms these devices provide a platform for all your home entertainment needs.

High Level of Integration

High level of system integration offering a range of functions that include: Ethernet PHY, audio decoding chip, WiFi, PMU etc.

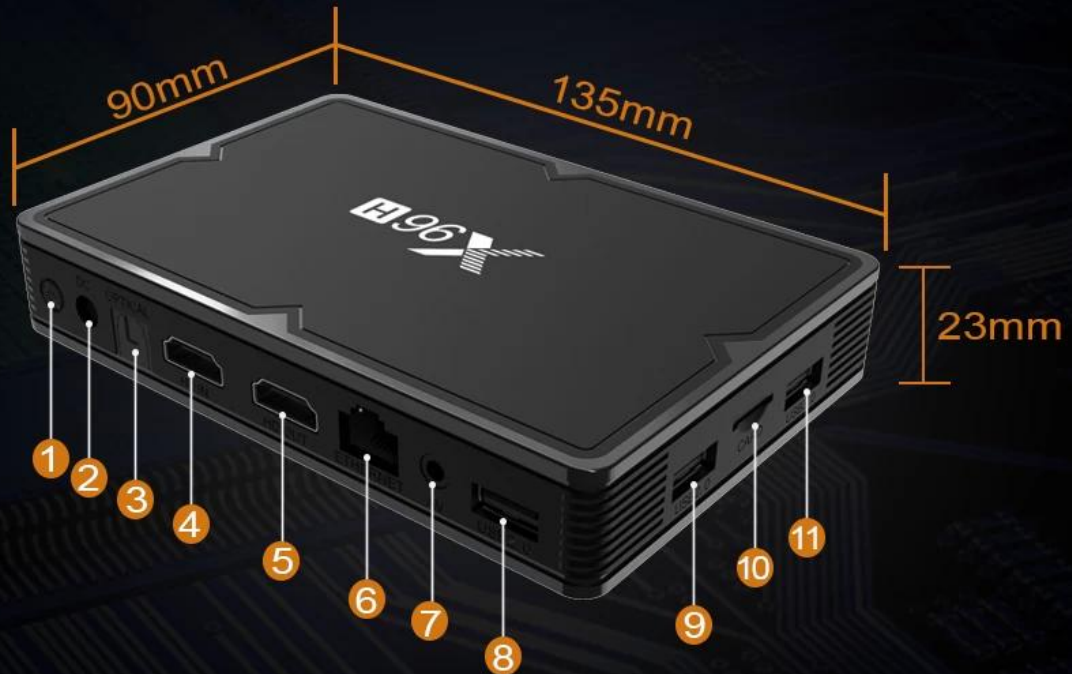
Total Solution

Supports total solution targeted at operator market, including various of DRM integration and Dolby identification.



Many ports Major possibilities

packs a lot of connectivity into a small space
easily connect to your hdtv



1. POWER SWITCH

2 . DC 5V

3 . OPTICAL

4 . HDMI IN

5 . HDMI OUT

6 . ETHERNET

7 . AV

8 . USB2.0 OTG

9 . USB2.0

10 . TF CARD

11 . USB3.0

HDMI is more convenient to connect to life

HDMI interface brings unlimited possibilities

HD
digital
video

High
quality
audio

High
color
gamut



64-bit quad-core ARM Cortex A53 CPU

Allwinner

H603

64 Bit

A53

Mali

T720

6K*4K
@30fps

Ultra HD

ALLWINER

H603



New upgrade system

In-depth development from the native architecture system performance is significantly improved than the previous generation, to create a smarter operating system that understands you better.



Android 9.0



6K video decoder



64-bit quad-core ARM
Cortex A53 CPU Support
multi-video decoder up to
6Kx4K@30fps



New upgraded built-in WiFi

WiFi IEEE 802.11 a/b/g/n/ac
Support dual-band wifi



MIMO
Wi-Fi



Dual frequency WiFi

2.4G  100M/S

5G  250M/S

2.4G+5G  400M/S

HDR dynamic range

New quality optimization engine
technology, experience a different visual feast

SDR

HDR



Extreme 6k enjoyment

Real-time image decoding- Maximum
resolution up to 5760×3240

4K

« »

6K





Package Contents



HD data cable



Remote control
(Battery not Included)



Power Supply



User Manual



Elevate your home entertainment with the X96H [TV Box](#), featuring Android 9.0 and an HDMI input. Powered by the Allwinner H603 Quad-core 64-bit ARM processor, this device offers 4GB of RAM and 32GB of storage, delivering stunning 6K4K resolution for a truly immersive viewing experience.