

# HD TV Box Android Wholesale Android TV Box Supplier

## Specifications

Model No.	Amlogic A311D TV Box Android Wholesale
CPU	Amlogic A311D Quad Core ARM Cortex A73 and Dual Core ARM Cortex A53 1.98Ghz
GPU	ARM Mali-G52 MP4 (6EE) OpenGL ES 3.2, Vulkan 1.1 and OpenCL 2.0
RAM	DDR4 2GB/4GB
ROM	16GB eMMC (Expandable up to 128GB)
OS	Android 9.0

## Video&Audio CODEC

Decoding resolution	Support 4K H265 10Bit, H.264, AVS, MPEG-2 and many other formats
Multimedia Support	Support MPEG1, MPEG2, MPEG4, H.264, WMV, MKV, TS, flv and other video formats; Support MP3 and other audio formats; support JPG, JPEG, BMP, PNG, GIF and other photo formats

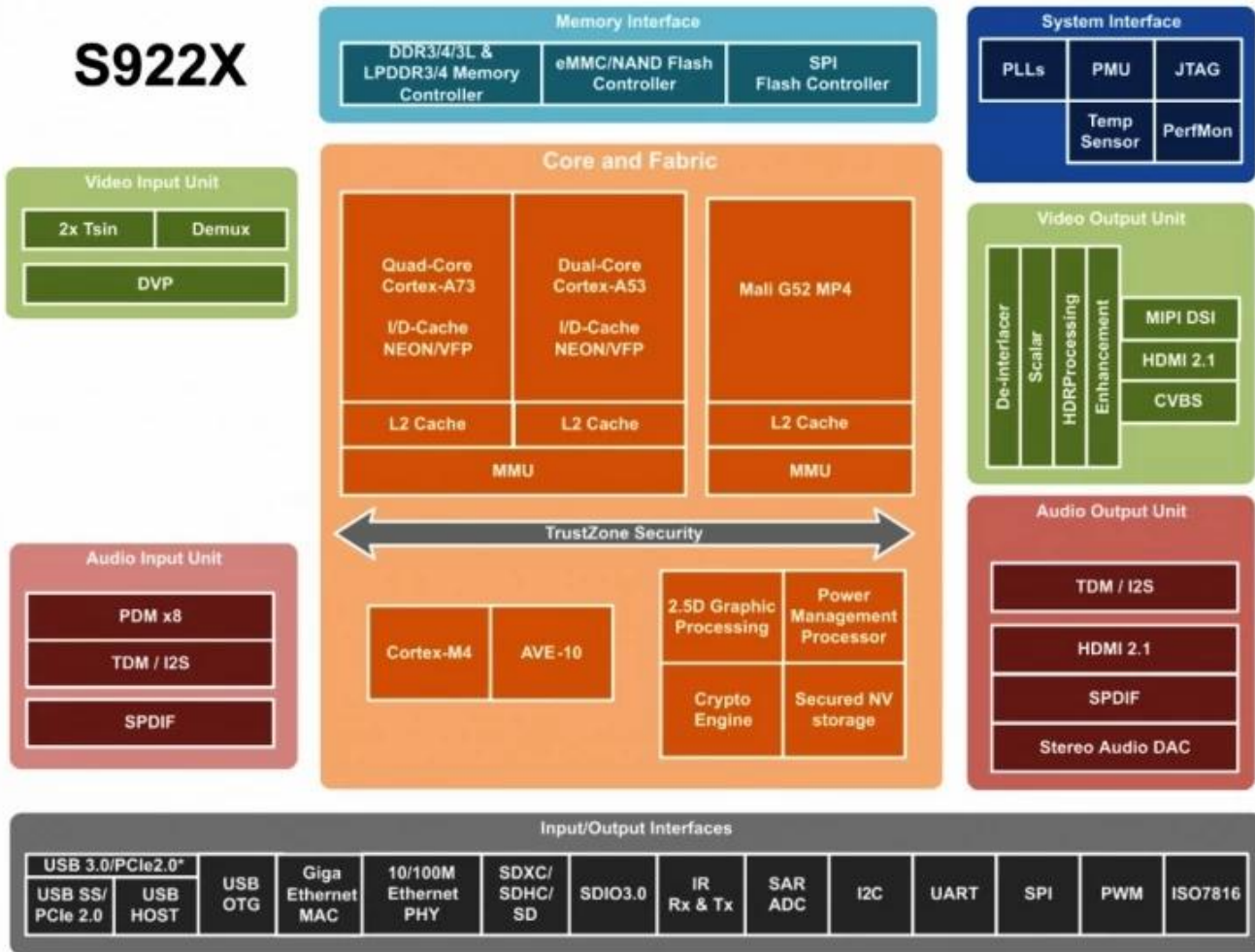
## Port

Video output	1 channel LVDS 40-pin 2.0mm double-pin, can support 8bit, 10bit screen; 1 channel HDMI output; 1 channel AV output
Video input	x1, MIPI CSI
Audio ouput	4-pin 2.5mm socket 25W@2 amplifier and 3W@2 speaker
Network interface	x1, 10M/100M Ethernet WIFI+BT, 2.4G single band or 2.4G/5G dual band for options PCIE slot (4G) x1 or M.2 slot (4G) x1 for options
USB2.0 interface	USB OTG x1 (available for HOST) USB HOST x7
Backlight interface	x2, 6-pin 2.0mm socket
Infrared interface	x1, 7-pin 2.0mm socket, supports both red and green LED indicators
Function expansion port	Serial ports x4
TF card slot	x1
SIM card slot	x1
RTC	Supports time synchronization

## Power

Power Supply	12V, 2.5DC Connector
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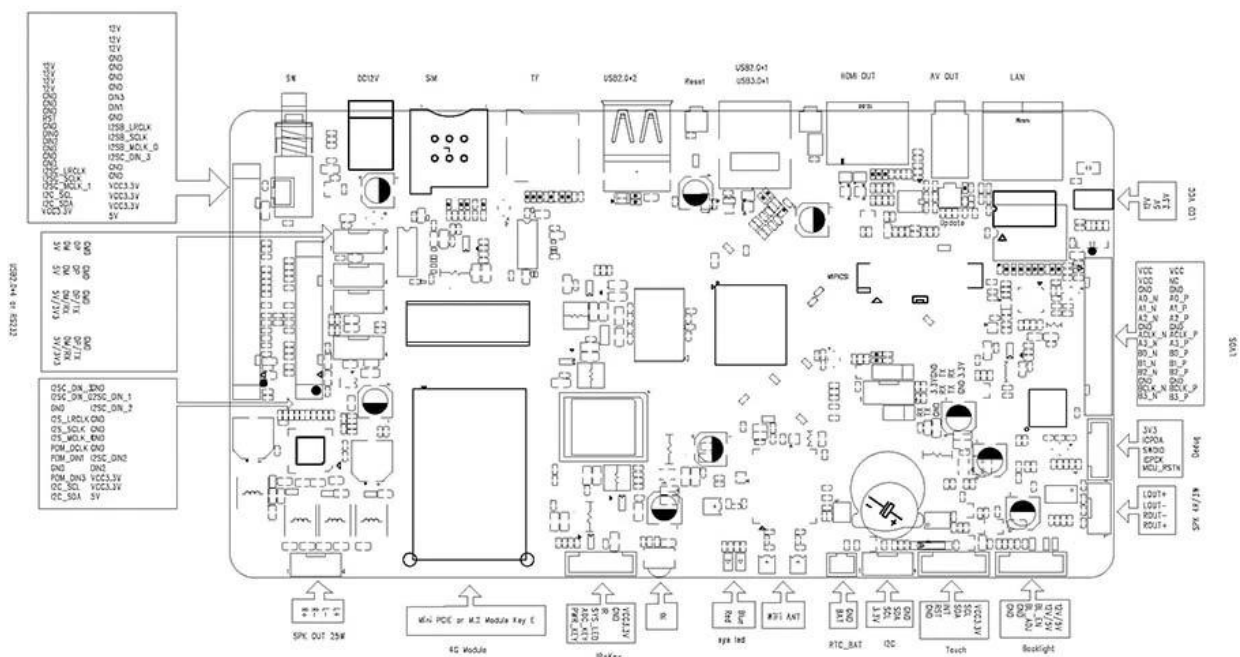
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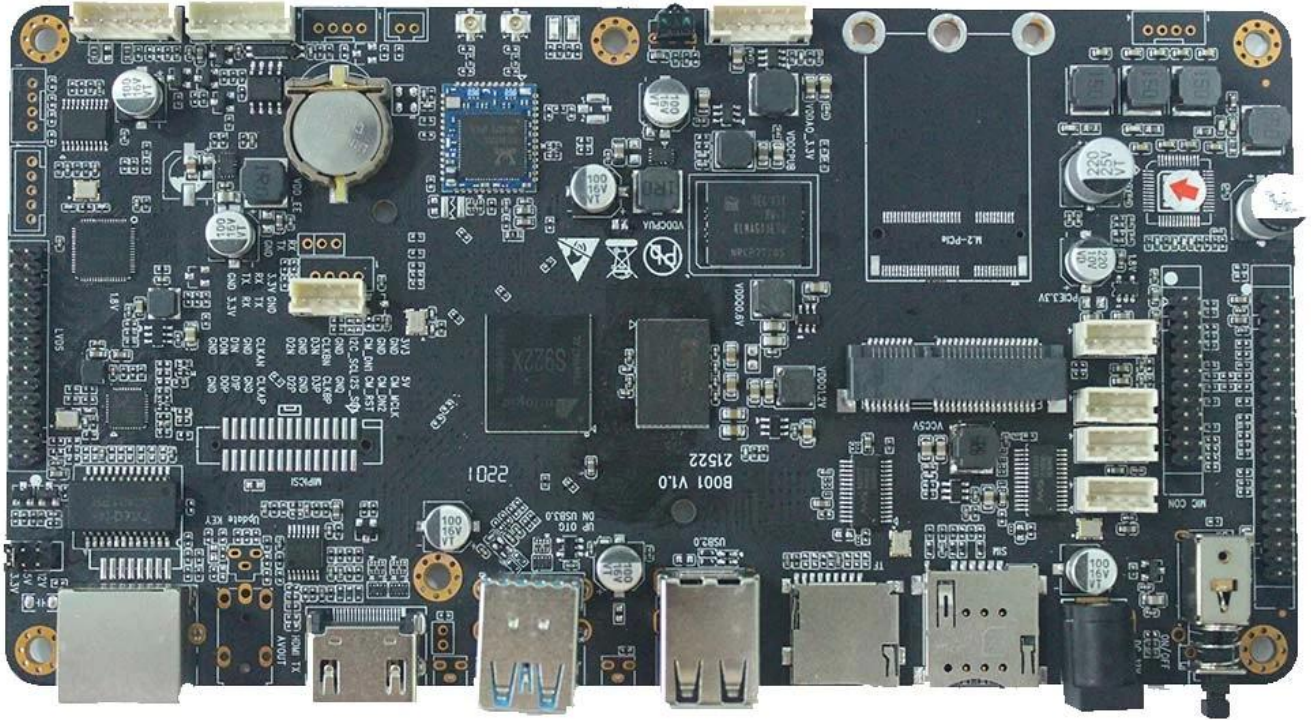


Supported configuration: PCIe2.0 port + USB2.0 Host, or USB3.0 without PCIe

S055T01







Amlogic A311D Android Development Board multimedia network player-LCD driver integrated board adopts Amlogic A311D 12nm high-end chip, which supports UHD 4K@60fps hardware video decoding. It also supports supports H.265 10-bit, H.264 and AVS+ and many other formats. Support HDR10 and HLG high dynamic range processing, with multi-channel UART and USB interfaces. Support Bluetooth, WIFI, 4G and Ethernet functions. Support AV serial use, SD card expansion. Perfectly supports all kinds of touch screens, suitable for high-performance intelligent display terminal equipment, industrial automation terminal, computer vision/algorithm, 3D experience, game/amusement equipment, high-performance face recognition computing/storage, AI intelligence, etc. It can be widely used as a high-end intelligent motherboard for various industries such as finance, advertising, security, transportation, and public transportation.

(1) With various interfaces

- 1 channel LVDS video output ( 40pins)
- 1 channel HDMI video output
- 5 channels USB2.0
- 4 channels RS232 (can be modified to USB2.0 by patch)
- 1 channel MIPI CSI
- 1 channel AV output
- 1 channel I2C
- I2SC/IS2B
- 1 channel 25W super power amplifier and 3W speaker interface



- (2) Hybrid networking to break through network constraints
  - Support wired, WiFi and 4G access, can realize multi-network hybrid networking
- (3) Easy to operate & fast maintenance
  - Support breakpoint playback
  - Super multi-period timing switch function
  - Support U disk loading or direct playback
  - Support automatic repair, remote upgrade, intelligent domain name resolution

## Chip Performance

### CPU Sub-system

- (1) Quad Core ARM Cortex-A73 and Dual Core ARM Cortex-A53 CPU
- (2) ARMv8-A architecture with Neon and Crypto extensions
- (3) Unified system L2 cache
- (4) Build-in Cortex-M4 core for always on processing
- (5) Advanced TrustZone security system
- (6) Application based traffic optimization using internal QoS-based switching fabrics

### 3D Graphics Processing Unit

- (1) ARM Mali-G52 MP4 (4ppc) GPU
- (2) 8-wide warps, 2x dual texture pipe, 6x8-wide execution engines (EE)
- (3) Concurrent multi-core processing
- (4) OpenGL ES3.2, Vulkan 1.0 and OpenCL 2.0 support

### Video/Picture CODEC

- (1) Amlogic Video Engine (AVE) with dedicated hardware decoders and encoders
- (2) Support multi-video decoder up to 4Kx2K@60fps+1x1080P@60fps
- (3) Supports multiple "secured" video decoding sessions and simultaneous decoding and encoding
- (4) Video/Picture Decoding

#### VP9 Profile-2 up to 4Kx2K@60fps

H.265 HEVCMP-10@L5.1 up to 4Kx2K@60fps

AVS2-P2 Profile up to 4Kx2K@60fps

H.264 AVCMP@L5.1 up to 4Kx2K@30fps

H.264 MVC up to 1080P@60fps

MPEG-4 ASP@L5 up to 1080P@60fps (ISO-14496)

WMV/VC-1 SP/MP/AP up to 1080P@60fps

AVS-P16(AVS+) /AVS-P2 JiZhun Profile up to 1080P@60fps

MPEG-2 MP/HL up to 1080P@60fps (ISO-13818)

MPEG-1MP/HL up to 1080P@60fps (ISO-11172)

RealVideo 8/9/10 up to 1080P@60fps

Multiple language and multiple format sub-title video support

MJPEG and JPEG unlimited pixel resolution decoding (ISO/IEC-10918)

Supports JPEG thumbnail, scaling, rotation and transition effects

Supports \*.mkv, \*.wmv, \*.mpg, \*.mpeg, \*.dat, \*.avi, \*.mov, \*.iso, \*.mp4, \*.rm and \*.jpg file formats

#### (5) Video/Picture Encoding

Independent JPEG and H.265/H.264 encoder with configurable performance/bit-rate

JPEG image encoding

H.265/H.264 video encoding up to 1080P@60fps with low latency

### Video Output

- (1) Built-in HDMI 2.1 transmitter including both controller and PHY with CEC, Dynamic HDR and HDCP 2.2, 4Kx2K@60 max resolution output
- (2) CVBS 480i/576i standard definition output
- (3) Supports all standard SD/HD/FHD video output formats: 480i/p, 576i/p, 720p, 1080i/p and 4Kx2K
- (4) 4-lane MIPI DSI interface, resolution up to 1920\*1080 with rotation and panel calibration

## Chip Performance

### CPU Sub-system

- (7) Quad Core ARM Cortex-A73 and Dual Core ARM Cortex-A53 CPU
- (8) ARMv8-A architecture with Neon and Crypto extensions
- (9) Unified system L2 cache
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- (11) Advanced TrustZone security system
- (12) Application based traffic optimization using internal QoS-based switching fabrics

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Welcome to our range of premium HD TV Box Android devices, available for wholesale purchase. As a trusted Android TV Box supplier, we are committed to delivering high-quality products that redefine entertainment experiences for users around the world.

### Cutting-Edge Technology:

Our HD TV Box Android devices are powered by cutting-edge technology, including powerful processors, advanced graphics capabilities, and support for high-definition content. Experience crisp visuals, smooth streaming, and immersive audio for an unparalleled entertainment experience.

### Seamless Performance:

Enjoy seamless performance with our HD TV Box Android devices. Whether you're streaming movies, playing games, or browsing the web, our devices deliver responsive and lag-free performance, ensuring a smooth user experience every time.

### **Wide Range of Features:**

Our HD TV Box Android devices come with a wide range of features to enhance your entertainment experience. From support for popular streaming apps to customizable interfaces and advanced connectivity options, our devices offer everything you need for a complete entertainment solution.

### **Customizable Interfaces:**

Personalize your entertainment experience with customizable interfaces on our HD TV Box Android devices. Easily access your favorite apps, organize content, and discover new media with user-friendly interfaces designed for intuitive navigation.

### **High-Definition Content Support:**

Experience stunning visuals with support for high-definition content on our HD TV Box Android devices. Enjoy your favorite movies, TV shows, and videos in crystal-clear quality for an immersive viewing experience.

### **Advanced Connectivity Options:**

Stay connected with advanced connectivity options on our HD TV Box Android devices. From dual-band Wi-Fi and Ethernet connectivity to Bluetooth support for wireless peripherals, our devices offer versatile connectivity options for seamless integration into your home entertainment setup.

### **Reliable Wholesale Partner:**

As a wholesale Android TV Box supplier, we are committed to providing reliable and high-quality products to retailers and distributors. Benefit from competitive pricing, bulk ordering options, and dedicated support to meet your business needs.

### **Conclusion:**

Elevate your entertainment offerings with our premium HD [TV Box Android wholesale](#) solution. As a leading Android TV Box supplier, we provide cutting-edge technology, seamless performance, and a wide range of features to enhance your customers' entertainment experiences. Partner with us for reliable wholesale solutions and take your business to the next level.