China Network Media Player, Android IPTV Box in China



Specifications		
Model No.	Amlogic S922X Network Media Player	
CPU	Amlogic S922X 64-bit quad core ARM® Cortex™ A73 CPU and dual core ARM® Cortex™ A53 CPU	
GPU	ARM MaliTM-G52 MP4 GPU processor	
ROM	2GB/4GB LPDDR4	
Internal Storage	16GB/64GB eMMC	
OS	Android 9.0	
Video&Audio CODEC		
Video/Picture CODEC	Amlogic Video Engine (AVE) with dedicated hardware decoders and encoders HW UHD 4K H.265 75fps 10-bit video decoder & low latency 1080p H.265/H.264 60fps encoder Support multi-video decoder up to 4Kx2K@60fps+1x1080P@60fps Supports multiple "secured" video decoding sessions and simultaneous decoding and encoding Video/Picture Decoding VP9 Profile-2 up to 4Kx2K@60fps H.265 HEVC MP-10@L5.1 up to 4Kx2K@60fps AVS2-P2 Profile up to 4Kx2K@60fps H.264 AVC HP@L5.1 up to 4Kx2K@30fps H.264 AVC up to 1080P@60fps MPEG-4 ASP@L5 up to 1080P@60fps (ISO-14496) WMV/VC-1 SP/MP/AP up to 1080P@60fps (ISO-14496) WMV/VC-1 SP/MP/AP up to 1080P@60fps MPEG-4 MP/HL up to 1080P@60fps (ISO-13818) MPEG-2 MP/HL up to 1080P@60fps (ISO-11818) MPEG-1 MP/HL up to 1080P@60fps (ISO-11172) RealVideo 8/9/10 up to 1080P@60fps H.265/H.264 video encoding up to 1080P@60fps with low latency 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 Supports Dolby VisionOptional, HDR10, HDR10+, HLG and PRIME HDR processing	
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	Built-in HDMI 2.1 transmitter including both controller and PHY with CEC, Dynamic HDR and HDCP 2.2, 4Kx2K@60 max resolution output CVBS 480i/576i standard definition output Supports all standard SD/HD/FHD video output formats: 480i/p, 576i/p, 720p, 1080i/p and 4Kx2K 4-lane MIPI DSI interfact resolution up to 1920*1080 with rotation and panel calibration Supports MP3, AAC, WMA, RM, FLAC, Ogg and programmable with 7.1/5.1 down-mixing Built-in serial digital audio SPDIF/IEC958 input/output and PCM input/output 3 built-in TDM/PCM/I2S ports with TDM/PCM mode up to 84kHz x32bits x 8ch or 96kHz x 32bits x 32ch and I2S mode up to 384kHz x 32bitsx8ch Digital microphone PDM voice input with programmable CIC, LPF & HPF, support up to 8 DMICs Built-in stereo audio DAC Supports concurrent dual audio stereo channel output with combination of analog+PCM or I2S+PCM	
Decoder Format	HD MPEG1/2/4, H.265/HEVC, HD AVC/VC-1, RM/RMVB, Xvid/DivX3/4/5/6, RealVideo8/9/10	
Media Format	Avi/Rm/Rmvb/Ts/Vob/Mkv/Mov/ISO/wmv/asf/flv/dat/mpg/mpeg	
Music Format	MP3/WMA/AAC/WAV/OGG/DDP/TrueHD/HD/FLAC/APE	
Photo Format	HD JPEG/BMP/GIF/PNG/TIFF	
Port		
USB host	USB2.0, Max480Mbps/USB3.0, Max5.1Gbps	
SIM	MICRO SIM	
HDMI	HDMI 2.2/1ch Lvds/1ch EDP	
LAN	RJ45 wire Ethernet connection 100/1000M Ethernet support	
L/\! ¥	1975 mile Edicines connection 100/1000m Edicines 3upport	

4G	PCIE Port
TF	microSD(Max 128G)
HDD	Support SATA Max2TB(Not included)
Power	
Power Supply	12V DC/3AΦ5.5*Φ2.5mm

This product is the network Android system motherboard, which is suitable for intelligent display terminal equipment, industrial automation terminal, computer vision/algorithm, 3D experience, game/entertainment equipment, high-performance Face Recognition calculation/storage, AI intelligence with high performance requirements. It can be widely used as the high-end demand intelligent mainboard of finance, advertising, security, transportation, public transportation and other industries.

This product adopts the latest generation of 12 nm ultra-low power AI chip s922x of Amlogic. It is an advanced application processor, integrating a powerful CPU, GPU subsystem, secure 4K video codec engine and first-class HDR image processing. The CPU of S922x main system adopts large and small architecture, which integrates four core arm cortex-a73 CPU cluster and dual core cortex-a53 cluster with unified secondary cache to improve system performance. Each CPU core includes a separate neon SIMD coprocessor to improve the software media processing capacity. Ave-10 can decode 4kx2k resolution video at a speed of 75 frames/second, and has a complete trusted video path (TVP) for security applications, supporting complete formats, including: MVC, MPEG-1/2/4, vc-1/WMV, AVS, AVS +, avs2 realvideo, MJPEG stream, H.264, h265-10, VP9 and JPEG pictures without size restrictions. The independent encoder can encode JPEG or h.265/h.264 format, up to 1080p, 75 frames per second. It supports 4kx2k @ 60fp (3840 * 2160) output of hdmi2.2 interface and 4K point screen of V by one interface. It supports HDCP 2.2, stereo audio DAC, CVBS output, 4channel Mipi DSI interface, multi TDM, PCM, I2S and SPDIF digital audio I/O interface, 8-Channel far-field PDM digital microphone (dmic) input and DVP camera interface. The product comes with 2x2 WiFi (supporting 2.4G and 5.8G dual frequency) + 4.1 wireless network module, supporting Gigabit Ethernet interface and infrared remote control, keyboard and mouse operation.

Highlights

- o Amlogic 64-bit quad core ARM® Cortex™ A73 CPU and dual core ARM® Cortex™ A53 CPU
- o ARM Mali-G52 MP4 GPU processor
- o HW UHD 4KH.265 75fps 10-bit video decoder & low latency 1080p H.265/H.264 60fp sencoder
- o Dolby Visionand HDR10, HDR10+, HLG and PRIME HDR video processing
- o Build in Cortex-M4 core for always on processing
- TrustZone based security for DRM video streaming
- o WIFI, BT, USB, SD, Ethernet, Analog Audio
- o Power management auxiliary processor

Amlogic S922X is an advanced application processor designed for Android hybrid OTT/IPTV Set Top Box(STB) and high-end media box applications. It integrates a powerful CPU, GPU subsystem, a secured 4K video CODEC engine and a best-in-class HDR image processing pipeline withall major peripherals to form the ultimate high-performance multimedia AP.

The main system CPU is based on Big. Little architecture which integrates a quad-core ARM Cortex-

A73 CPU cluster and a dual-core Cortex-A53 cluster with united L2 cache to improve systemper formance. Each CPU core includes the separate NEON SIMD co- processor toimprove software media processing capability.

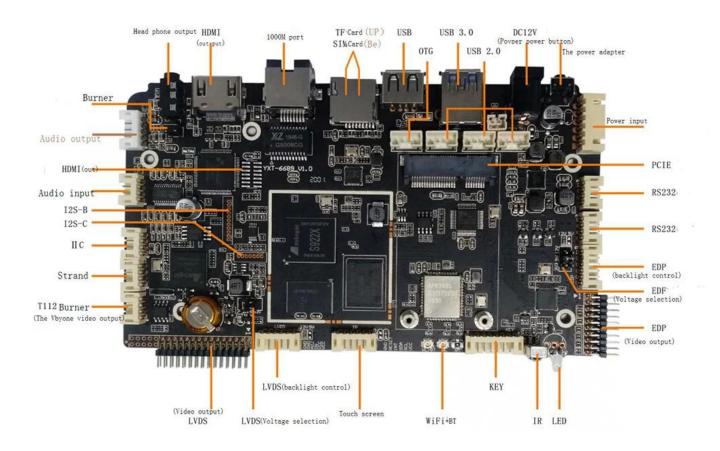
The graphic subsystem consists of twographic engines and a flexible video/graphic output pipeline. The ARM Mali-G52 MP4 GPU handles all OpenGL ES 3.2 Vulkan 1.0 and OpenCL 2.0 graphic programs, while the 2.5D graphics processor handles additional scaling, alpha, rotation and color space conversion operations. Together, the CPU and GPU handle all operating system, networking, user-interface and gaming relatedtasks. The video output pipeline includes Dolby Visionoptional HDR10, HDR10+,HLG and PRIME HDR processing, REC709/BT2020 processing, motion adaptive edgee nhancing de-interlacing, flexible programmable scalar, and manypicture enhancement filters before passing the enhanced image to the video outputports.

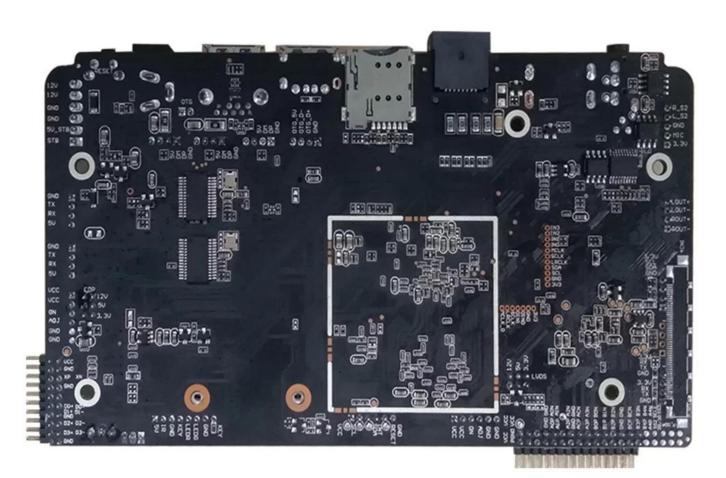
Amlogic Video Engine (AVE-10) offloads the Cortex-A53 CPUs from all video CODEC processing. It includes dedicated hardwarevideo decoder and encoder. AVE-10 is capable of decoding 4Kx2K resolution videoat 75fps with complete Trusted Video Path (TVP) for secure applications and supports full formats including MVC, MPEG- 1/2/4, VC-1/WMV, AVS, AVS+, AVS2 RealVideo, MJPEG streams, H.264, H265-10, VP9 and also JPEG pictures with nosize limitation. The independent encoder is able to encode in JPEG orH.265/H.264 up to 1080p at 60fps.

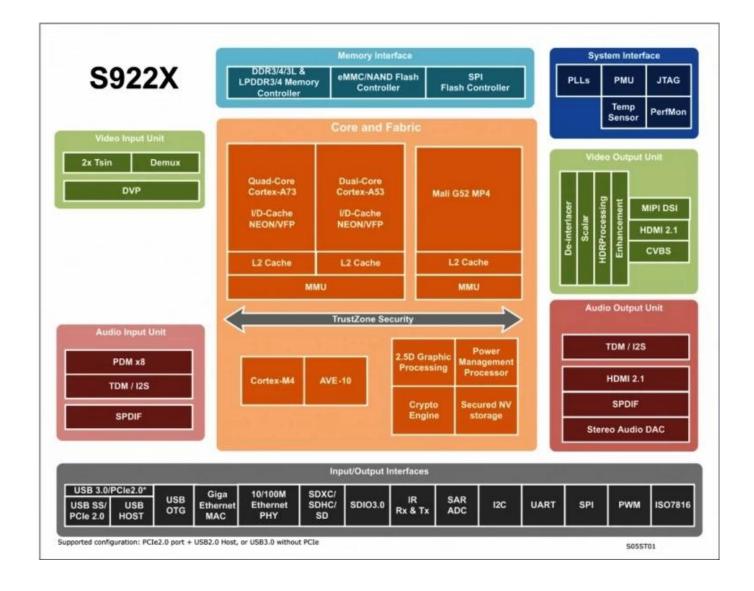
Amlogic S922X integrates all standard audio/video input/output interfaces including a HDMI2.1 transmitter with 3D, Dynamic HDR, CEC and HDCP 2.2 support, stereo audio DAC, a CVBS output, 4-lane MIPI DSI interface, multiple TDM, PCM, I2S and SPDIF digital audio input/output interfaces, 8 channel far-field PDM digital microphone (DMIC) inputs and a DVPcamera interface.

Amlogic S922X also integrates a set offunctional blocks for digital TV broadcasting streams. The built-in two demuxcan process the TV streams from the serial and parallel transport stream input interface, which can connect to external tuner/demodulator.

The processor has rich advanced network and peripheral interfaces, including a 10/100/1000M Ethernet MAC with RGMII, 10/100M Ethernet PHY, one USB XHCI OTG 2.0 port, one USB 3.0 and PCIe







- **1. Advanced Technology and Features** Our network media players and Android IPTV boxes are equipped with state-of-the-art technology to provide a premium entertainment experience. Enjoy high-definition streaming, Dolby Digital audio, voice search capabilities, and more.
- **2. Seamless Streaming** Experience seamless streaming of your favorite movies, TV shows, live sports, and music with our network media players and IPTV boxes. Our products ensure smooth playback without buffering or lag.
- **3. Interactive Interfaces** Navigate through content effortlessly with our user-friendly interfaces. Discover new content, access apps, and customize your viewing preferences with intuitive controls and interactive features.
- **4. Wide Range of Content** Our network media players and Android IPTV boxes support a wide range of streaming services, including Netflix, Hulu, Amazon Prime Video, YouTube, and more. Access thousands of hours of content to suit your entertainment needs.
- **5. Connectivity Options** Stay connected with built-in Wi-Fi and Ethernet connectivity options. Our products also support USB and HDMI inputs for easy connectivity with other devices and peripherals.
- **6. Easy Setup and Installation** Setting up our network media players and Android IPTV boxes is

quick and simple. Connect to your TV, follow the on-screen instructions, and start streaming in minutes.

7. Customer Satisfaction We prioritize customer satisfaction and strive to deliver top-quality products and services. Our dedicated support team is available to assist with any inquiries or technical issues, ensuring a smooth and enjoyable experience for our customers.

Conclusion In conclusion, our China-based company offers reliable and feature-rich network media players and Android IPTV boxes that cater to diverse entertainment needs. Whether you're looking for seamless streaming, interactive interfaces, or a wide range of content options, our products deliver exceptional performance and value. Upgrade your home entertainment setup with our network media players and Android IPTV boxes for an immersive viewing experience.