

# Amlogic S922X 9.0 PCBA GPIO PCIE GPS LVDS RS232 EDP



Model	S922X
Processor	Amlogic S922X 64-bit ARM® Cortex™ A73 CPU ARM® Cortex™ A53 CPU
GPU	ARM MaliTM-G52 MP4 GPU
Memory	2GB/4GB LPDDR4
Storage	16GB B/ 64GB
OS	Android 9.0
Video	<p>Amlogic AVE (AVE)                      HW UHD 4K H.265 75fps 10-bit 1080p H.265/H.264 60fps                      4Kx2K@60fps 1x1080P@60fps                      VP9 Profile-2 4Kx2K@60fps                      H.265 HEVC MP-10@L5.1 4Kx2K@60fps                      AVS2-P2 4Kx2K@60fps                      H.264 AVC HP@L5.1 4Kx2K@30fps                      H.264 MVC 1080P@60fps                      MPEG-4 ASP@L5 1080P@60fps (ISO-14496)                      WMV/VC-1 SP/MP/AP 1080P@60fps                      AVS-P16(AVS) /AVS-P2 1080P@60fps                      MPEG-2 MP/HL 1080P@60fps (ISO-13818)                      MPEG-1 MP/HL 1080P@60fps (ISO-11172)                      RealVideo 8/9/10 1080P@60fps                      H.265/H.264 1080P@60fps                      MJPEG JPEG (ISO/IEC-10918)                      * .mkv * .wmv * .mpg * .mpeg * .dat * .avi * .mov * .iso * .mp4 * .rm * .jpg                      HDR10 HDR10+ HLG PRIME HDR</p>
Video	<p>JPEG H.265/H.264 1080P@60fps                      JPEG H.265/H.264 1080P@60fps</p>
Video	<p>HDMI 2.1 CEC HDR HDCP 2.2 PHY                      4Kx2K@60 C VBS 480i/576i                      SD/HD/FHD 480i/p 576i/p 720p 1080i/p 4Kx2K 4 MIPI DSI                      1920*1080                      MP3 AAC WMA RM FLAC Ogg 7.1/5.1                      SPDIF/IEC958 PCM 3 TDM/PCM/I2S                      TDM/PCM 84kHz x32 x 8 96kHz x 32 x 32 and I2S 384kHz x 32x8                      PDM CIC LPF HPF 8 DMIC DAC                      PCM I2SPCM</p>
Video	MPEG1/2/4 H.265/HEVC AVC/VC-1 RM/RMVB Xvid/DivX3/4/5/6 RealVideo8/9/10
Video	Avi/Rm/Rmvb/Ts/Vob/Mkv/Mov/ISO/wmv/asf/flv/dat/mpg/mpeg
Audio	MP3/WMA/AAC/WAV/OGG/DDP/TrueHD/HD/FLAC/APE
Image	JPEG/BMP/GIF/PNG/TIFF
USB	USB2.0 480Mbps/USB3.0 5.1Gbps
SIM	SIM

HDMI	HDMI 2.2/1ch Lvds/1ch EDP
DDI	RJ45 100/1000Mbps
WiFi/BT	AP63985(Combo) 2.4G5.8G
4G	PCI-E
TF	microSD(upto)128G
SSD	SATA Max2TB
Power	12V DC/3AΦ5.5*Φ2.5mm

Android OS, 3D graphics, AI processing

Amlogic S922X AI s922x CPU GPU 4K HDR ARM Cortex-A73 Cortex-A53 CPU neon SIMD Ave-10 75fps 4Kx2K TVP MVC MPEG-1/2/4 VC-1 /WMV AVS AVS2 RealVideo MJPEG H.264 H.265-10 VP9 JPEG JPEG H.265/H.264 1080p 75fps HDMI2.2 4Kx2K@60fps(3840\*2160) V4K HDCP 2.2 DAC CVBS 4 Mipi DSI TDM PCM I2S SPDIF I/O 8 PDM (dmic) DVP 2x2 WiFi 2.4G 5.8G 4.1

- o Amlogic 64-bit ARM® Cortex™ A73 CPU ARM® Cortex™ A53 CPU
- o ARM Mali-G52 MP4 GPU
- o HW UHD 4K H.265 75fps 10-bit 1080p H.265/H.264 60fps
- o HDR10 HDR10+ HLG PRIME HDR
- o Cortex-M4
- o TrustZone DRM
- o WIFI BT USB SD
- o

Amlogic S922X Android OTT/IPTV (STB) CPU GPU 4K HDR AP

Big Little ARM Cortex-A73 Cortex-A53 CPU NEON SIMD

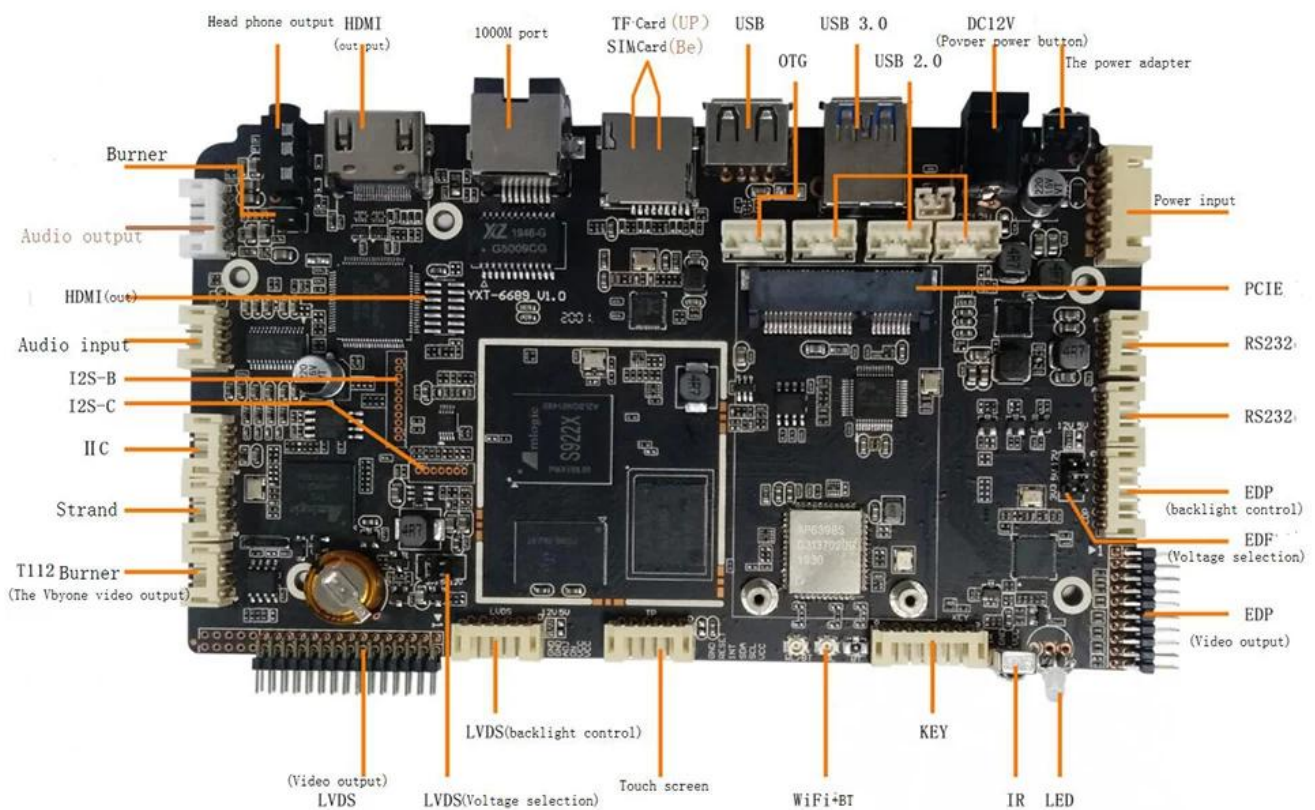
ARM Mali-G52 MP4 GPU OpenGL ES 3.2 Vulkan 1.0 OpenCL 2.0 2.5D alpha CPU GPU HDR10 HDR10+ HLG PRIME HDR REC709/BT2020

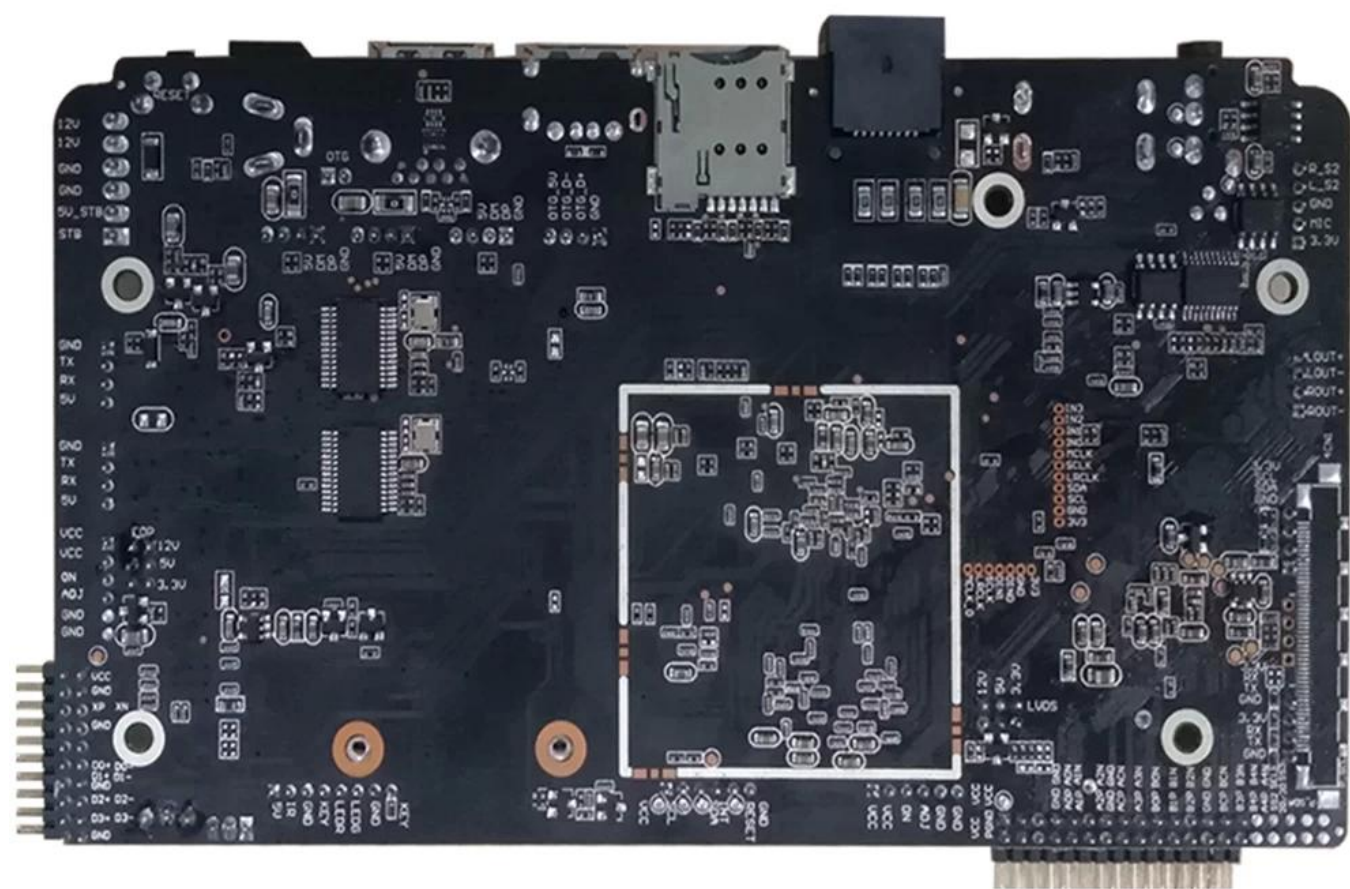
Amlogic AVE-10 Cortex-A53 CPU AVE-10 75fps 4Kx2K (TVP) MVC MPEG-1/2/4 VC-1 /WMV AVS AVS2 RealVideo MJPEG H.264 H.265-10 VP9 JPEG JPEG H.265/H.264 1080p 60fps

Amlogic S922X 3D HDMI2.1 HDR CEC HDCP 2.2 DAC CVBS 4 MIPI DSI TDM PCM I2S SPDIF 8 PDM (DMIC) DVP

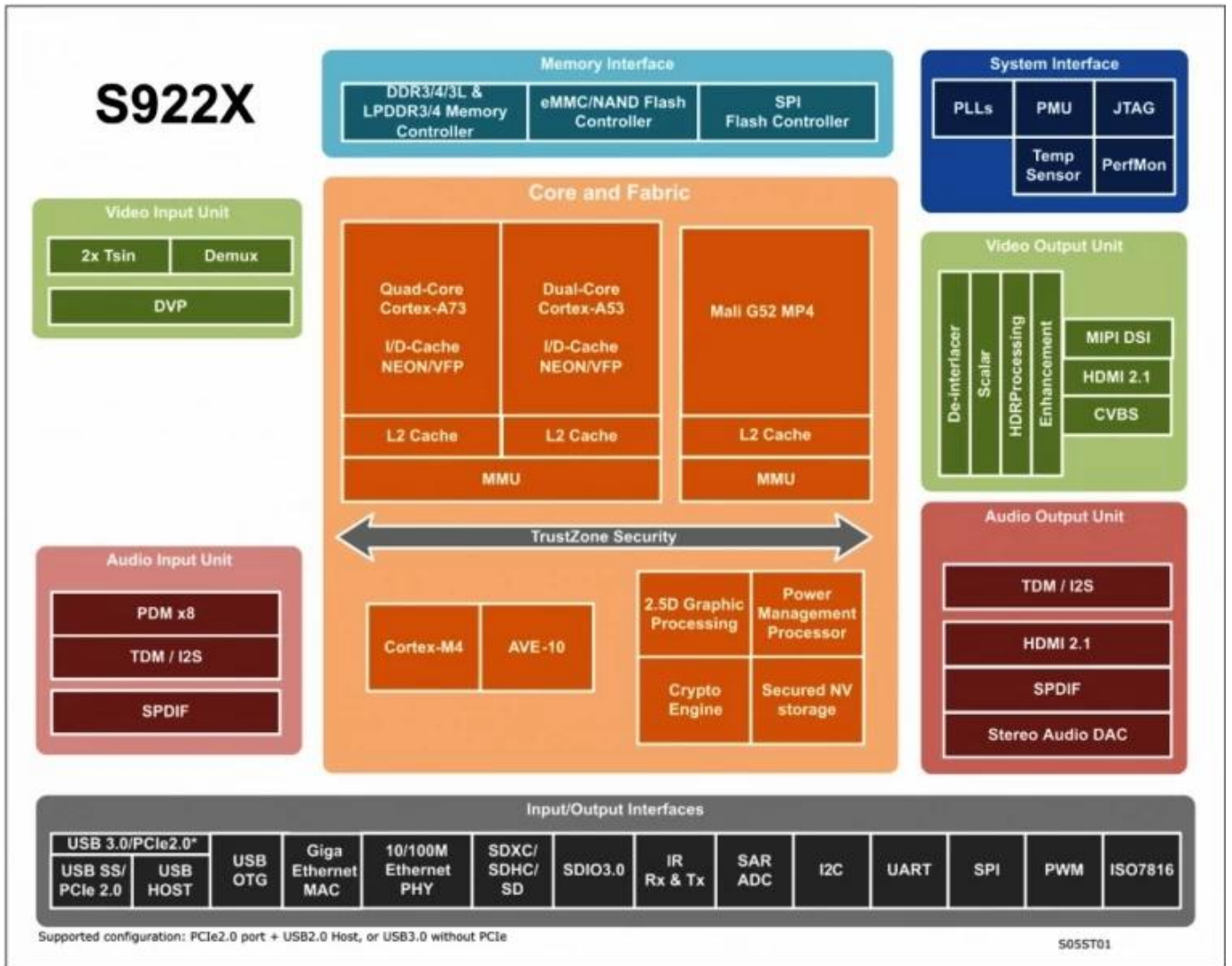
Amlogic S922X

1 RGMII 10/100/1000M MAC 10/100M PHY 1 USB XHCI OTG 2.0 1 USB3.0 PCIe









Amlogic S922X Android 9.0 PCBA PCBA

PCBA Amlogic S922X PCBA

Amlogic S922X PCBA GPIO PCIE GPS LVDS RS232 EDP

GPIO

PCIE Peripheral Component Interconnect Express Wi-Fi

GPS PCBA GPS

LVDS

RS232

EDP DisplayPort EDP

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