

Android

Processor	Amlogic S922X
CPU	ARM Cortex A73 / ARM Cortex A53 1.98Ghz
GPU	ARM Mali-G52 MP4 (6EE) OpenGL ES 3.2 / Vulkan 1.1 / OpenCL 2.0
RAM	DDR4 2GB/4GB
Storage	16GB eMMC / 128GB
OS	Android 9.0
Video	4K H.265 10Bit / H.264 / AVS / MPEG-2
Audio	MPEG1 / MPEG2 / MPEG4 / H.264 / WMV / MKV / TS / flv / MP3 / JPG / JPEG / BMP / PNG / GIF
Display	1x LVDS 40pin 2.0mm 8bit / 10bit / 1x HDMI / 1x AV
Camera	1x MIPI CSI
Connectivity	4x 2.5mm 25W @ 2 / 3W @ 2 / x1 10M / 100M / WiFi BT 2.4G / 2.4G / 5G / PCIe 4G x1 / M.2 4G x1
USB	USB OTG x1 / USB x7
Buttons	2x 6pin 2.0mm
Light	1x 7pin 2.0mm LED
Other	4x / TF x1 / SIM x1
Power	12V / 2.5DC

Android / 3D / AI

Amlogic S922X AI s922x CPU GPU 4K HDR S922x CPU ARM Cortex-A73 CPU Cortex-A53 CPU neon SIMD Ave-10 75 / 4kx2k TVP MVC MPEG-1/2/4 vc-1 / WMV AVS AVS avs2 realvideo MJPEG H.264 h265-10 VP9 JPEG JPEG h.265/h.264 1080p 75 hdmi2.2 4kx2k@60fp (3840*2160) V 4K 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

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- o Amlogic 64 ARM® Cortex™ A73 CPU ARM® Cortex™ A53 CPU
- o ARM Mali-G52 MP4 GPU
- o HW UHD 4K.H.265 75fps 10 1080p H.265/H.264 60fp
- o HDR10 HDR10+ HLG PRIME HDR

- o Cortex-M4
- o TrustZone
- o WIFI/BT/USB/SD
- o

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

CPU 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

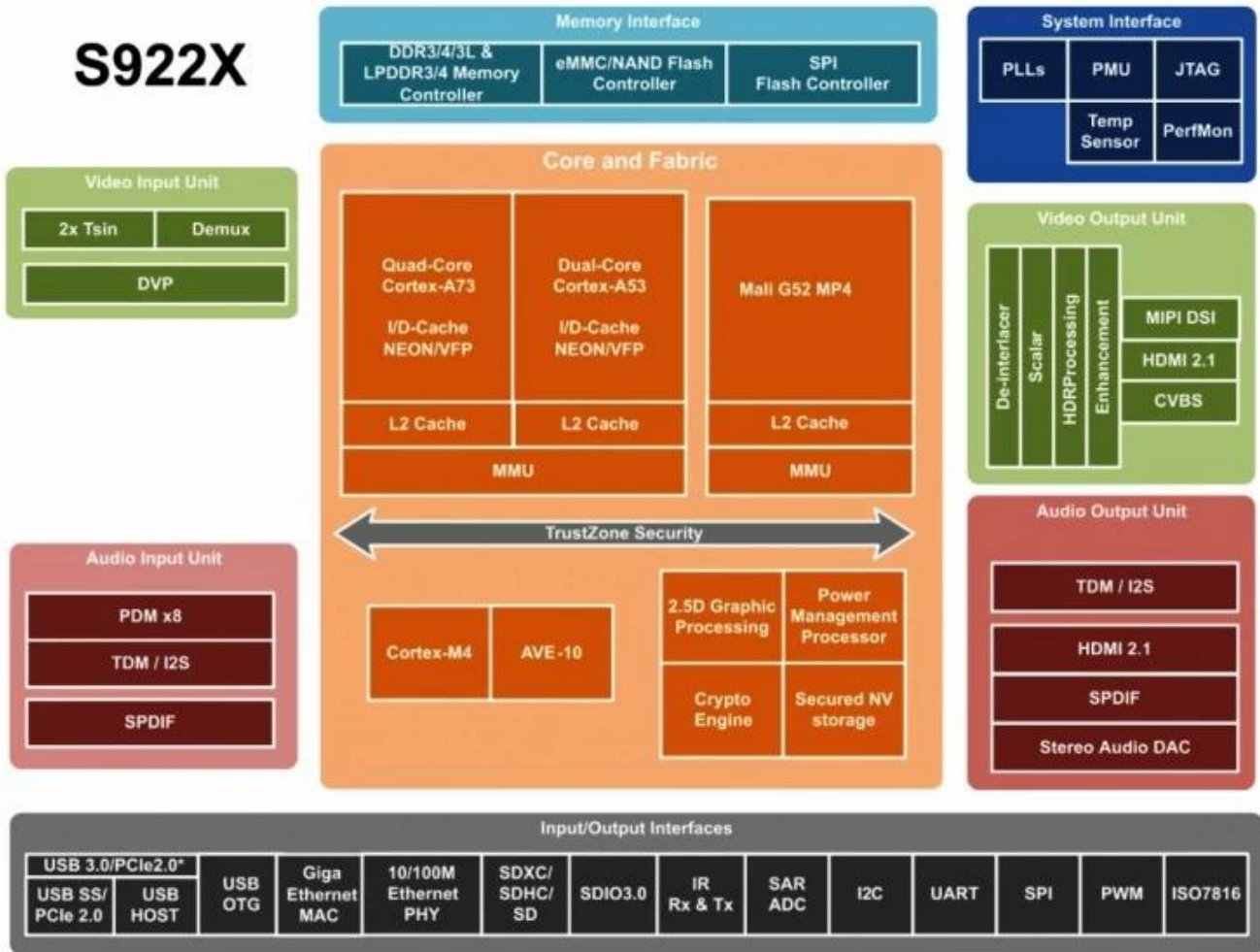
Amlogic (AVE-10) Cortex-A53 CPU AVE-10 75fps 4Kx2K (TVP) MVC/MPEG-1/2/4 VC-1/WMV AVS AVS2 RealVideo MJPEG H.264 H265-10 VP9 JPEG JPEG H.265/H.264 1080p 60fps

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

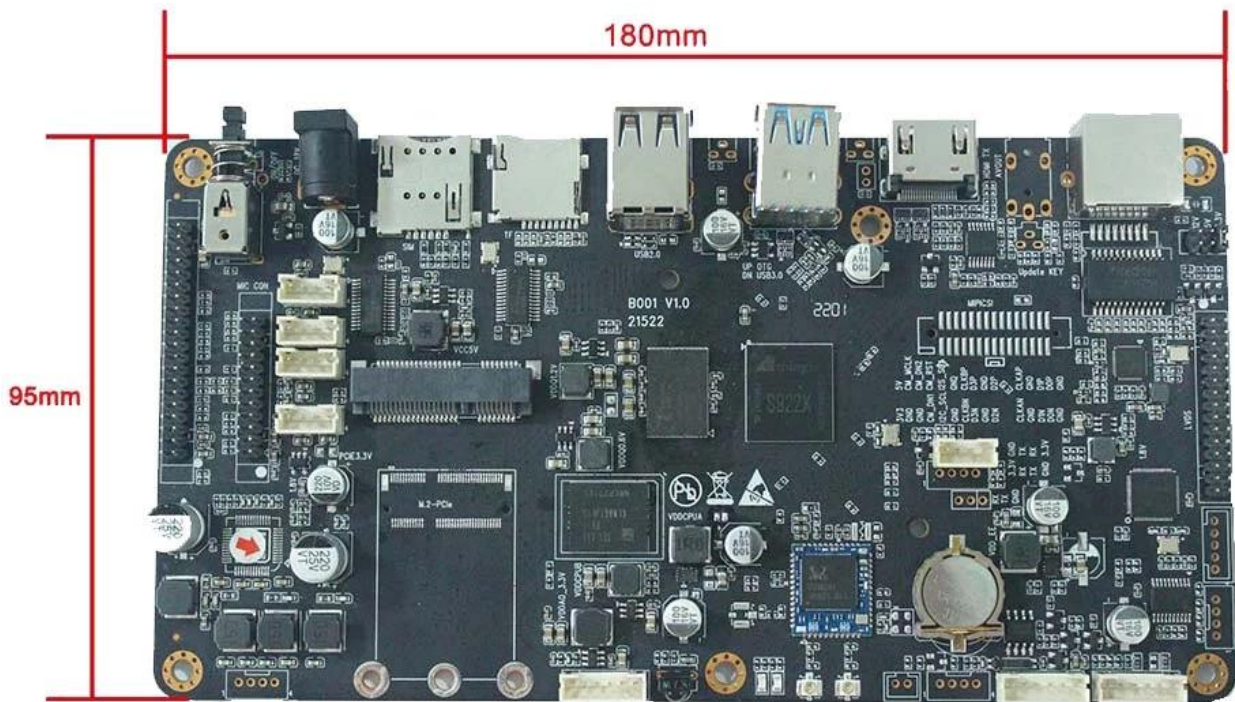
1 RGMII 10/100/1000M MAC 10/100M PHY 1 USB XHCI OTG 2.0 1 USB3.0 PCIe

S922X



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

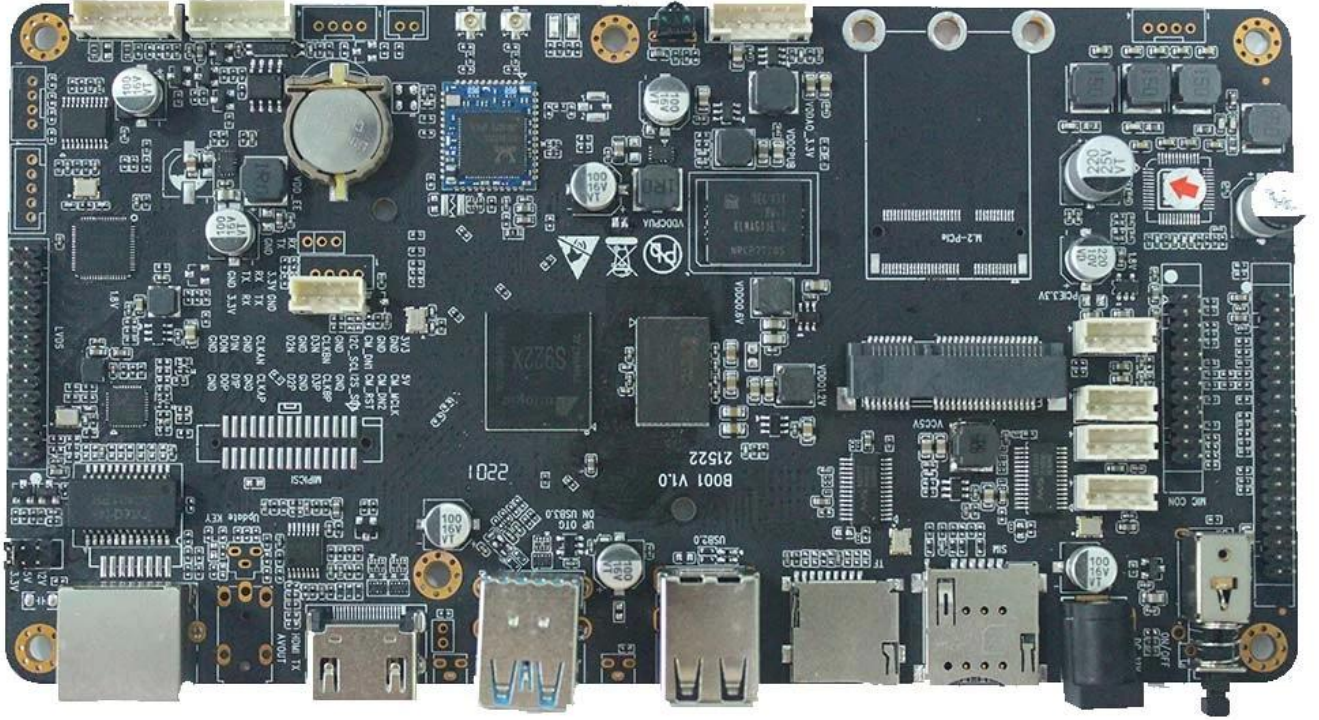
S055T01



180mm

95mm

180mm*95mm*20mm



- 000000
- 000000000000
- 000000000000
- 000000000000000000

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CPU000

- (1) 00 ARM Cortex-A73 000 ARM Cortex-A53 CPU
- (2) 00 Neon 0 Crypto 000 ARMv8-A 00
- (3)00000000
- (4) 00 Cortex-M4 0000000000
- (5) 000TrustZone0000
- (6) 000000 QoS 0000000000000000

3D000000

- (1) 0 ARM Mali-G52 MP4 (4ppc) GPU
- (2) 8 00002x 0000006x8 000000(EE)
- (3)000000
- (4) OpenGL ES3.200Vulkan 1.0 0 OpenCL 2.0 00

00/000000

- (1) Amlogic 0000 (AVE) 00000000000000
- (2) 00004Kx2K@60fps1x1080P@60fps00000000
- (3) 0000“00”0000000000000000
- (4)00/0000
- VP9 Profile-2 00 4Kx2K@60fps
- H.265 HEVCMP-10@L5.100 4Kx2K@60fps
- AVS2-P2 000000 4Kx2K@60fps
- H.264 AVCHP@L5.1 00 4Kx2K@30fps
- H.264 MVC 00 1080P@60fps
- MPEG-4 ASP@L5 00 1080P@60fps (ISO-14496)
- WMV/VC-1 SP/MP/AP 00 1080P@60fps
- AVS-P16(AVS) /AVS-P2 000000001080P@60fps
- MPEG-2 MP/HL 00 1080P@60fps(ISO-13818)
- MPEG-1MP/HLupto1080P@60fps(ISO-11172)
- RealVideo 8/9/10 00 1080P@60fps
- 00000000000000
- MJPEG 0 JPEG 0000000000(ISO/IEC-10918)
- 00JPEG0000000000000000
- 00*.mkv00*.wmv00*.mpg00*.mpeg00*.dat00*.avi00*.mov00*.iso00*.mp400*.rm 00*.jpg 0000
- (5) 00/0000
- 000 JPEG 0 H.265/H.264 000000000000/000
- JPEG0000
- H.265/H.264 000000 1080P@60fps0000

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- (1) 00 HDMI 2.1 000000000000 PHY0000 CEC0000 HDR 0 HDCP 2.2004Kx2K@60 00000000
- (2) CVBS 480i/576i0000
- (3) 000000 SD/HD/FHD 00000000480i/p00576i/p00720p001080i/p 0 4Kx2K
- (4) 40MIPI DSI00000000001920*10800000000000

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CPU000

- (7) 00 ARM Cortex-A73 000 ARM Cortex-A53 CPU

- (8) ARM Neon & Crypto ARMv8-A
- (9)
- (10) Cortex-M4
- (11) TrustZone
- (12) QoS

3D

- (5) ARM Mali-G52 MP4 (4ppc) GPU
- (6) 8x2x6x8(E)
- (7)
- (8) OpenGL ES3.2 Vulkan 1.0 OpenCL 2.0

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- (6) Amlogic(AVE)
- (7) 4Kx2K@60fps1x1080P@60fps
- (8) “”
- (9)/
- VP9 Profile-2 4Kx2K@60fps
- H.265 HEVCMP-10@L5.1 4Kx2K@60fps
- AVS2-P2 4Kx2K@60fps
- H.264 AVCHP@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-1MP/HLupto1080P@60fps(ISO-11172)
- RealVideo 8/9/10 1080P@60fps
-
- MJPEG JPEG (ISO/IEC-10918)
- JPEG
- *.mkv*.wmv*.mpg*.mpeg*.dat*.avi*.mov*.iso*.mp4*.rm *.jpg
- (10)/
- JPEG H.265/H.264
- JPEG
- H.265/H.264 1080P@60fps

- (5) HDMI 2.1 PHY CEC HDR HDCP 2.2 4Kx2K@60
- (6) CVBS 480i/576i
- (7) SD/HD/FHD 480i/p 576i/p 720p 1080i/p 4Kx2K
- (8) 4 MIPI DSI 1920*1080

Amlogic S922X Android 4K