

- o HW UHD 4K@265 75fps 10bit 1080p H.265/H.264 60fps
- o Dolby Vision, HDR10, HDR10+, HLG, PRIME HDR
- o Cortex-M4
- o DRM TrustZone
- o WIFI, BT, USB, SD, ...
- o ...

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

ARM Cortex-A73 CPU Cortex-A53 L2 NEON SIMD

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

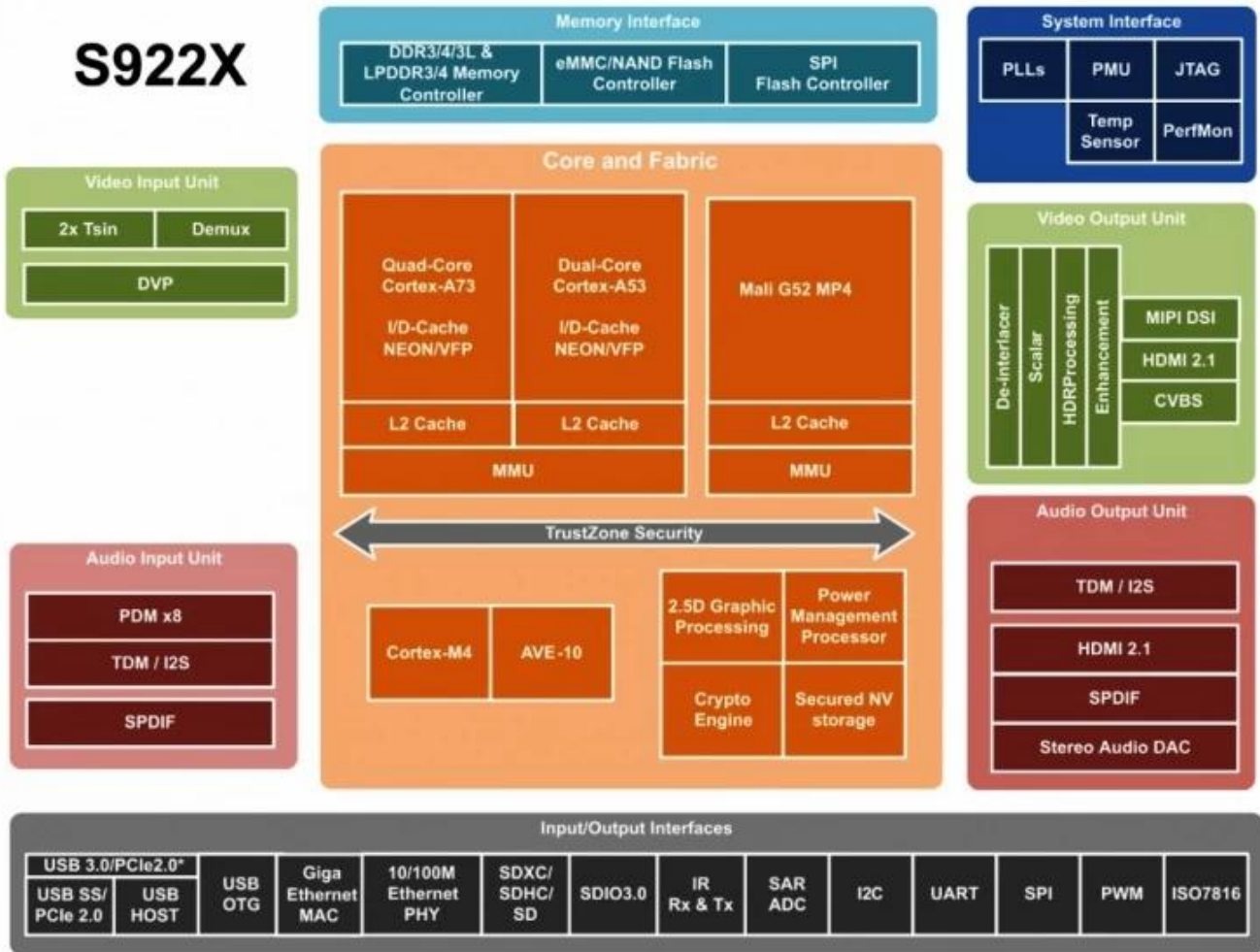
Amlogic Video Engine(AVE-10) Cortex-A53 CPU TVP(75fps 4Kx2K) MVC, MPEG-1/2/4, VC-1/WMV, AVS, AVS, AVS2 RealVideo, MJPEG, H.264, H265-10, VP9 JPEG H.265/H.264 60fps 1080p

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

Amlogic S922X TV 2

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

S922X



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

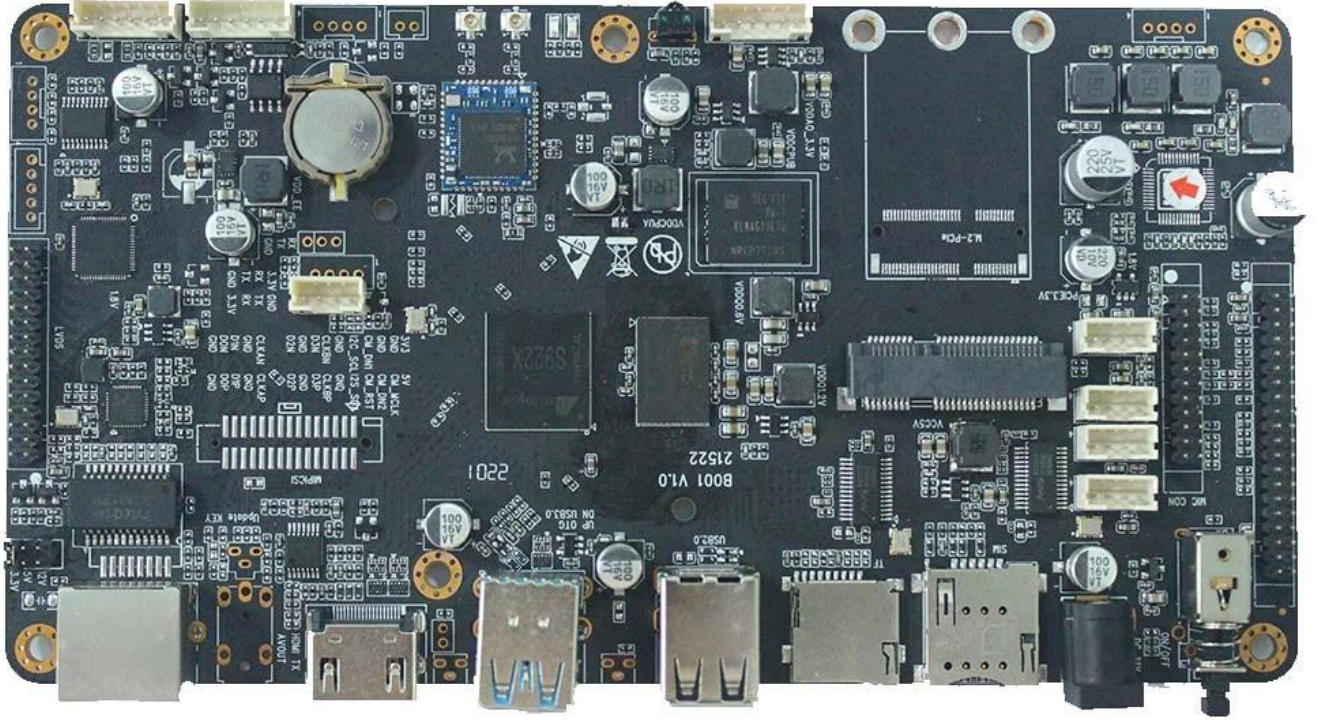
S055T01

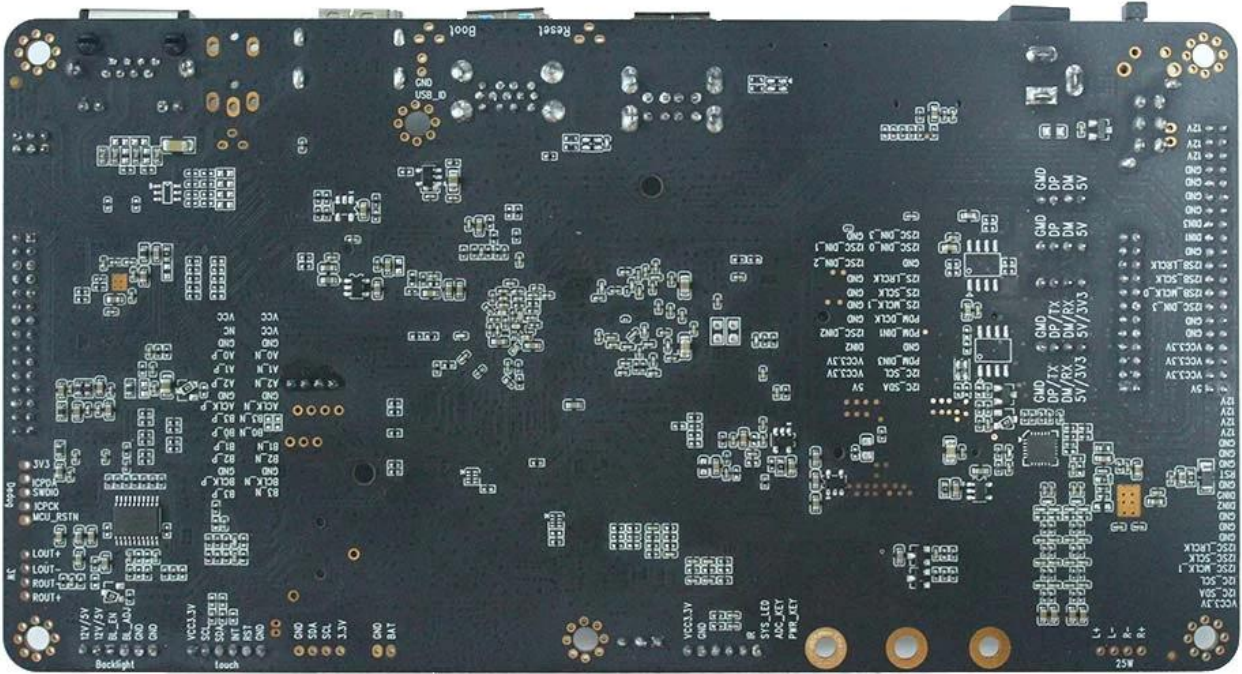


180mm

95mm

180mm*95mm*20mm





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Amlogic S922X Android □□ □□ □□□□ □□□□ □□□□-LCD □□□□ □□ □□□ UHD 4K@60fps □□□□ □□□ □□□□ □□□□ Amlogic S922X 12nm □□ □□ □□□□□□. □□ H.265 10□□, H.264, AVS □ □□ □□□ □□□ □□□□□□. □□ □□ UART □ USB □□□□□□ □□ HDR10 □ HLG □□ □□ □□ □□□ □□. Bluetooth, WIFI, 4G □ □□□ □□□ □□□□□□. AV □□ □□, SD □□ □□□ □□□□□□. □□□□ □□□□□ □□ □□, □□ □□□ □□, □□□ □□/□□□□□, 3D □□, □ □/□□ □□, □□□ □□ □□ □□□/□□□□□, AI □□□□□□ □□ □□□ □□ □□□ □□□□□□ □□□□ □□□□□□. □□, □□, □□, □□, □□□□ □ □□□ □□ □□□ □□□ □□□□□ □ □□□ □ □□□□□.

(1) □□□ □□□□□□

- 1□□ LVDS □□□□ □□(40□)
- 1□□ HDMI □□□□ □□
- 5□□ USB2.0
- 4□□ RS232 (□□□□ USB2.0□□ □□ □□)
- 1□□ MIPI CSI
- 1□□ AV □□
- 1□□ I2C
- I2SC/IS2B
- 1□□ 25W □□□□□□ □ 3W □□□ □□□□□□

(2) □□□□ □□□□ □□□□ □□□□ □□□□

- □□, WiFi □ 4G □□□□ □□□□ □□ □□□□ □□□□□ □□□□ □□□ □ □□□□□.

(3) 1000 1000 10000 10000.

- 1000 1000
- 1000 1000 1000 1000
- U 1000 1000 1000 1000
- 1000 1000, 1000 100000, 1000 1000 1000 1000

1000

CPU 1000 1000

- (1) 1000 1000 ARM Cortex-A73 1000 1000 ARM Cortex-A53 CPU
- (2) Neon 1000 Crypto 1000 1000 ARMv8-A 10000
- (3) 1000 1000 L2 1000
- (4) 1000 1000 1000 Cortex-M4 1000
- (5) 1000 TrustZone 1000 1000
- (6) 1000 QoS 1000 10000 1000 10000000 1000 1000 1000

3D 1000 1000 1000

- (1) ARM Mali-G52 MP4(4ppc) GPU
- (2) 800 1000, 2x1000 1000 1000, 6x800 1000 1000(EE)
- (3) 1000 10000 1000
- (4) OpenGL ES3.2, Vulkan 1.0 1000 OpenCL 2.0 1000

1000/1000 1000

(1) 1000 10000 1000 10000 1000 Amlogic Video Engine(AVE)

(2) 1000 4Kx2K@60fps1x1080P@60fps1000 1000 1000 1000

(3) 1000 "1000" 1000 1000 1000 1000 1000 10000 1000000.

(4) 1000/1000 1000

VP9 10000-2 1000 4Kx2K@60fps

H.265 HEVCMP-10@L5.11000 4Kx2K@60fps

AVS2-P2 10000 1000 4Kx2K@60fps

H.264 AVCHP@L5.11000 4Kx2K@30fps

H.264 MVC 1000 1080P@60fps

MPEG-4 ASP@L5 1000 1080P@60fps(ISO-14496)

WMV/VC-1 SP/MP/AP 1000 1080P@60fps

AVS-P16(AVS) /AVS-P2 JiZhun 1000 1000 1080P@60fps

MPEG-2 MP/HL 1000 1080P@60fps(ISO-13818)

MPEG-1MP/HLupto1080P@60fps(ISO-11172)

RealVideo 8/9/10 1000 1080P@60fps

1000 1000 1000 1000 1000 1000

MJPEG 1000 JPEG 1000 1000 1000(ISO/IEC-10918)

JPEG 1000, 1000 1000, 1000 1000 1000

.mkv,.wmv,*.mpg, *.mpeg, *.dat, *.avi,*.mov, *.iso,*.mp4, *.rm 1000*.jpg 1000 1000

(5) 1000/1000 1000

1000/1000 10000 1000 1000 10000 JPEG 1000 H.265/H.264 1000

JPEG 1000 1000

1000 1000 1000 1080P@60fps1000 H.265/H.264 1000 1000

1000 1000

(1) CEC, Dynamic HDR 1000 HDCP 2.2, 4Kx2K@60 1000 1000 1000 1000000 PHY1000 1000 1000 HDMI 2.1 1000

(2) CVBS 480i/576i 1000 1000 1000

(3) 1000 1000 SD/HD/FHD 1000 1000 1000: 480i/p, 576i/p, 720p, 1080i/p 1000 4Kx2K

(4) 4000 MIPI DSI 1000000, 1000 1000 1000 1000 1920*1080 1000

1000 1000

CPU 詳細

- (7) ARM Cortex-A73 / ARM Cortex-A53 CPU
- (8) Neon / Crypto / ARMv8-A
- (9) L2 Cache
- (10) Cortex-M4
- (11) TrustZone
- (12) QoS

3D 詳細

- (5) ARM Mali-G52 MP4(4ppc) GPU
- (6) 8x8, 2x8, 6x8 (EE)
- (7) OpenGL ES3.2, Vulkan 1.0 / OpenCL 2.0

映像/音声

- (6) Amlogic Video Engine(AVE)
- (7) 4Kx2K@60fps/1x1080P@60fps
- (8) "H.265" / VP9 / H.264 / AVS2-P2 / H.264 AVCHP / H.264 MVC / MPEG-4 ASP / WMV/VC-1 SP/MP/AP / AVS-P16(AVS) / AVS-P2 JiZhun / MPEG-2 MP/HL / MPEG-1MP/HL upto 1080P@60fps / RealVideo 8/9/10 / MJPEG / JPEG / *.mkv, *.wmv, *.mpg, *.mpeg, *.dat, *.avi, *.mov, *.iso, *.mp4, *.rm, *.jpg
- (9) VP9 / H.265 HEVCMP-10@L5.1 / AVS2-P2 / H.264 AVCHP / H.264 MVC / MPEG-4 ASP / WMV/VC-1 SP/MP/AP / AVS-P16(AVS) / AVS-P2 JiZhun / MPEG-2 MP/HL / MPEG-1MP/HL upto 1080P@60fps / RealVideo 8/9/10 / MJPEG / JPEG
- (10) MJPEG / JPEG / H.265/H.264

接続

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

4K Android TV / Octa-Core / Android

4K Android TV Box / Android TV Box