



Amlogic S922X 12nm 4K HDR AI SoC. 12nm s922x Amlogic CPU, GPU, 4K HDR CPU S922x dual core cortex-a53 CPU arm cortex-a73 Neon SIMD Ave-10 4kx2k 75fps (TVP) MVC, MPEG-1/2/4, vc-1 /WMV, AVS, AVS, avs2 realvideo, MJPEG, H.264, h265-10, VP9 JPEG h.265/h.264 1080p, 75fps 4kx2k @ 60fp (3840 \* 2160) hdmi2.2 4K V HDCP 2.2, DAC CVBS, Mipi DSI 4 I/O TDM, PCM, I2S SPDIF PDM (dmic) 8 DVP 2x2 WiFi (2.4G 5.8G) 4.1 Gigabit Ethernet

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Amlogic

o Amlogic ARM® Cortex™ A73 64 ARM® Cortex™ A53

GPU ARM Mali-G52 MP4

o HW UHD 4K.H.265 75fps 10 1080p H.265/H.264 60fp sencoder

o Dolby Vision HDR10, HDR10, HLG PRIME HDR

o Cortex-M4 core

o TrustZone DRM

o WIFI, BT, USB, SD,

o

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

CPU Big CPU ARM Cortex-A73 Quad-Core Cortex-A53 Dual-Core L2

CPU core NEON SIMD

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

Amlogic Video Engine (AVE-10) Cortex-A53 CODEC AVE-10 4Kx2K 75fps Trusted Video Path (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 60fps

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

Amlogic S922X demuxcan

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



Head phone output

HDMI (out-put)

1000M port

TF Card (UP) SIMCard(Be)

USB

USB 3.0

USB 2.0

DC12V (Power power button)

The power adapter

Burner

Power input

Audio output

PCIE

HDMI(out)

RS232

Audio input

RS232

I2S-B

EDP (backlight control)

I2S-C

EDF (Voltage selection)

IIC

EDP (Video output)

Strand

T112 Burner (The Vbyone video output)

LVDS(backlight control)

KEY

(Video output) LVDS

LVDS(Voltage selection)

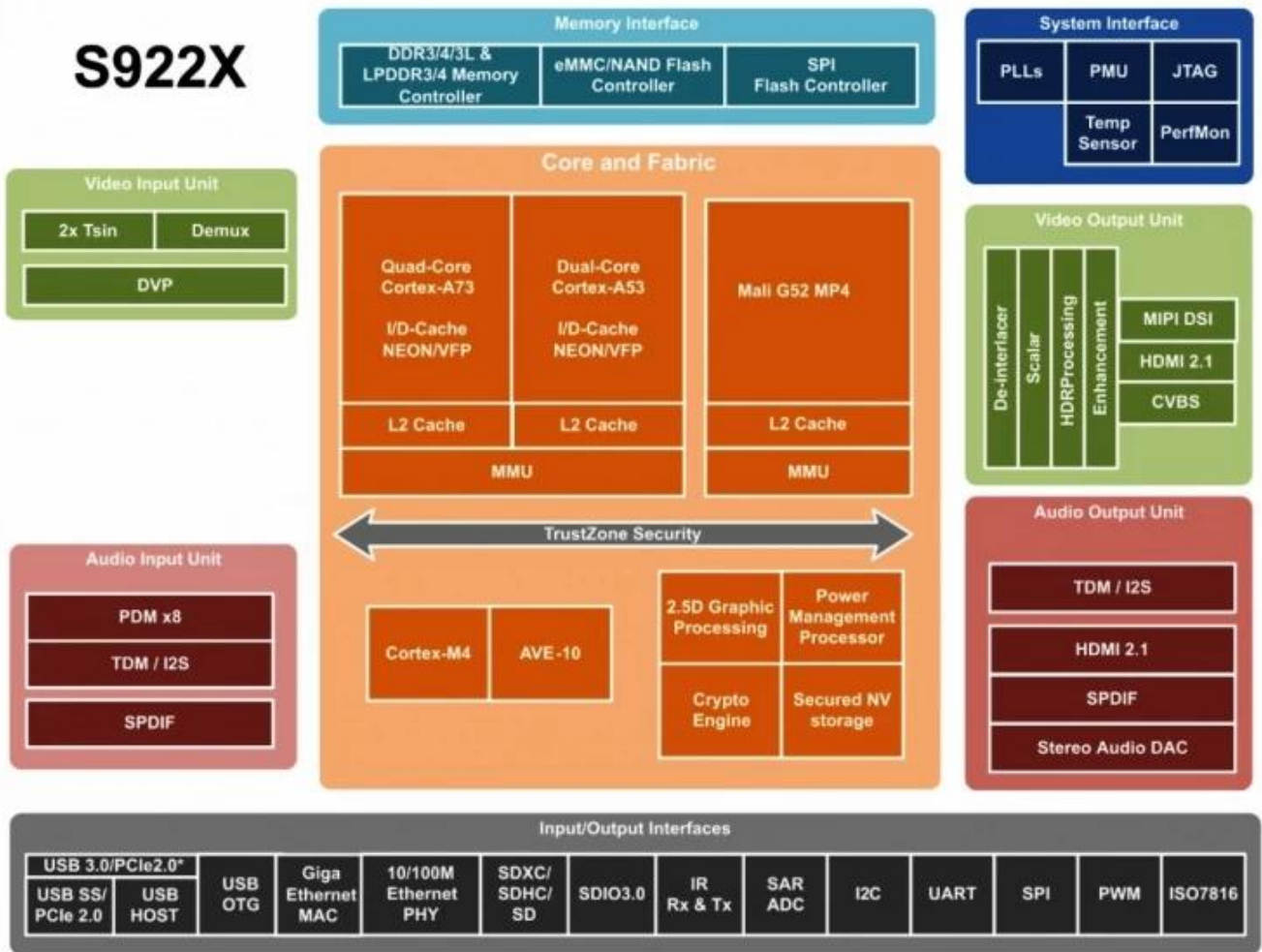
Touch screen

WiFi+BT

IR LED



# S922X



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

S055T01

支持多种显示接口，包括 HDMI, LVDS, V-by-One, eDP 等。详细规格请参考产品手册。

**HDMI:** 支持 HDMI 2.0 接口，提供高清视频和音频传输能力。详细规格请参考产品手册。

**LVDS:** 支持 LVDS (Low Voltage Differential Signaling) 接口，适用于 LCD 显示。详细规格请参考产品手册。

**V-by-One:** 支持 V-by-One 接口，提供低功耗、高分辨率的显示解决方案。详细规格请参考产品手册。

