

Android 10

Processor	Amlogic T972 (T962X2) ARM Cortex A55 1.98GHZ
GPU	Penta Core ARM Mail-450
RAM	DDR4 2GB/4GB
Storage	16GB eMMC (128GB SD/USB)
OS	Android 9.0

CODEC	<ul style="list-style-type: none"> - Amlogic Video Engine (AVE-10) 4Kx2K@75fps - VP9 2-10 8Kx4K@24fps 4Kx2K@60fps - H.265 HEVC MP-10@L5.1 8Kx4K@24fps 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 JiZhun 1080P@60fps - MPEG-2 MP/HL 1080P@60fps (ISO-13818) - MPEG-1 MP/HL 1080P@60fps (ISO-11172) - 8/9/10 1080P@60fps - MJPEG JPEG (ISO/IEC-10918) - JPEG - *.mkv, *.wmv, *.mpg, *.mpeg, *.dat, *.avi, *.mov, *.iso, *.mp4, *.rm, *.jpg
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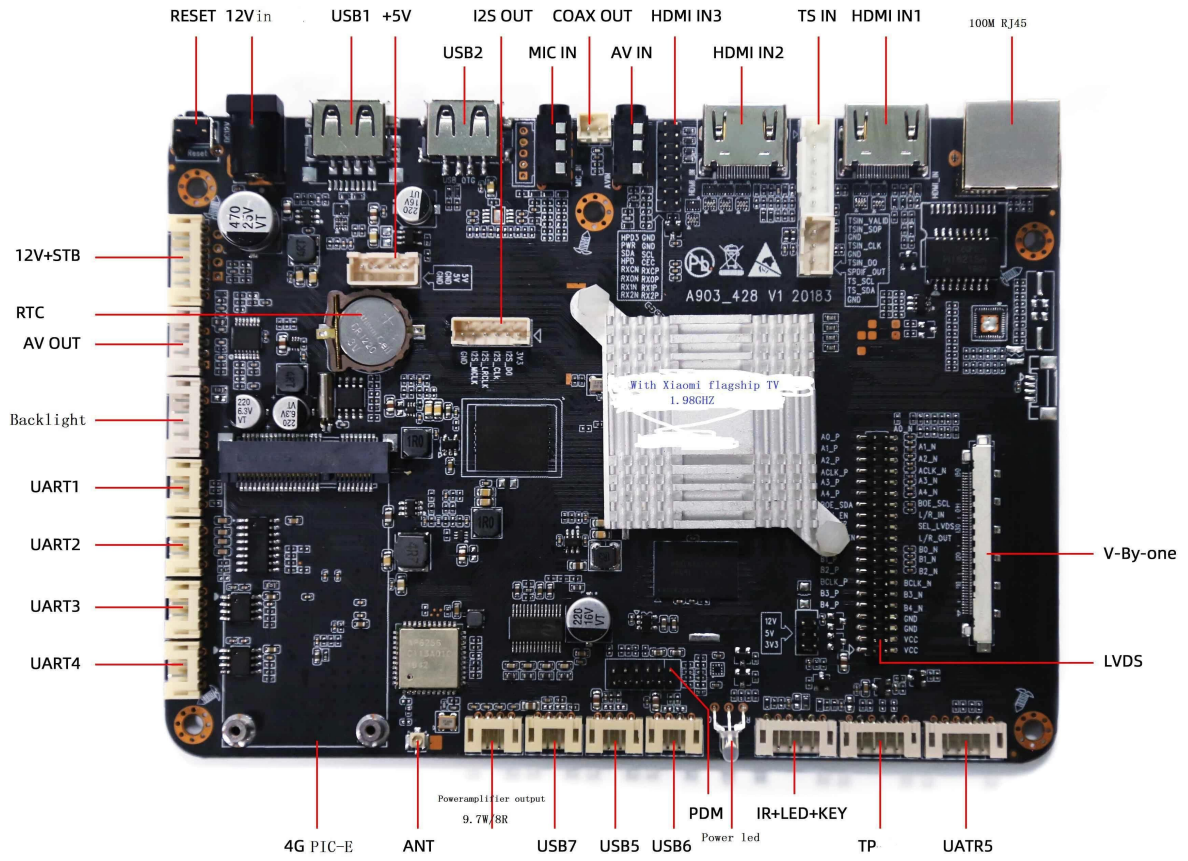
CODEC	<ul style="list-style-type: none"> - VP9 2-10 8Kx4K@24fps 4Kx2K@60fps - H.265 HEVC MP-10@L5.1 8Kx4K@24fps 4Kx2K@60fps - AVS2-P2 4Kx2K@60fps - H.264 AVC HP@L5.1 4Kx2K@30fps - H.264 MVC 1080P@60fps - MPEG-4 ASP@L5 1080P@60fps (ISO-14496) - WMV/VC-1 SP/MP/AP 1080P@60fps - AVS-P16(AVS) /AVS-P2 JiZhun 1080P@60fps - MPEG-2 MP/HL 1080P@60fps (ISO-13818) - MPEG-1 MP/HL 1080P@60fps (ISO-11172) - 8/9/10 1080P@60fps - MJPEG JPEG (ISO/IEC-10918) - JPEG - *.mkv, *.wmv, *.mpg, *.mpeg, *.dat, *.avi, *.mov, *.iso, *.mp4, *.rm, *.jpg
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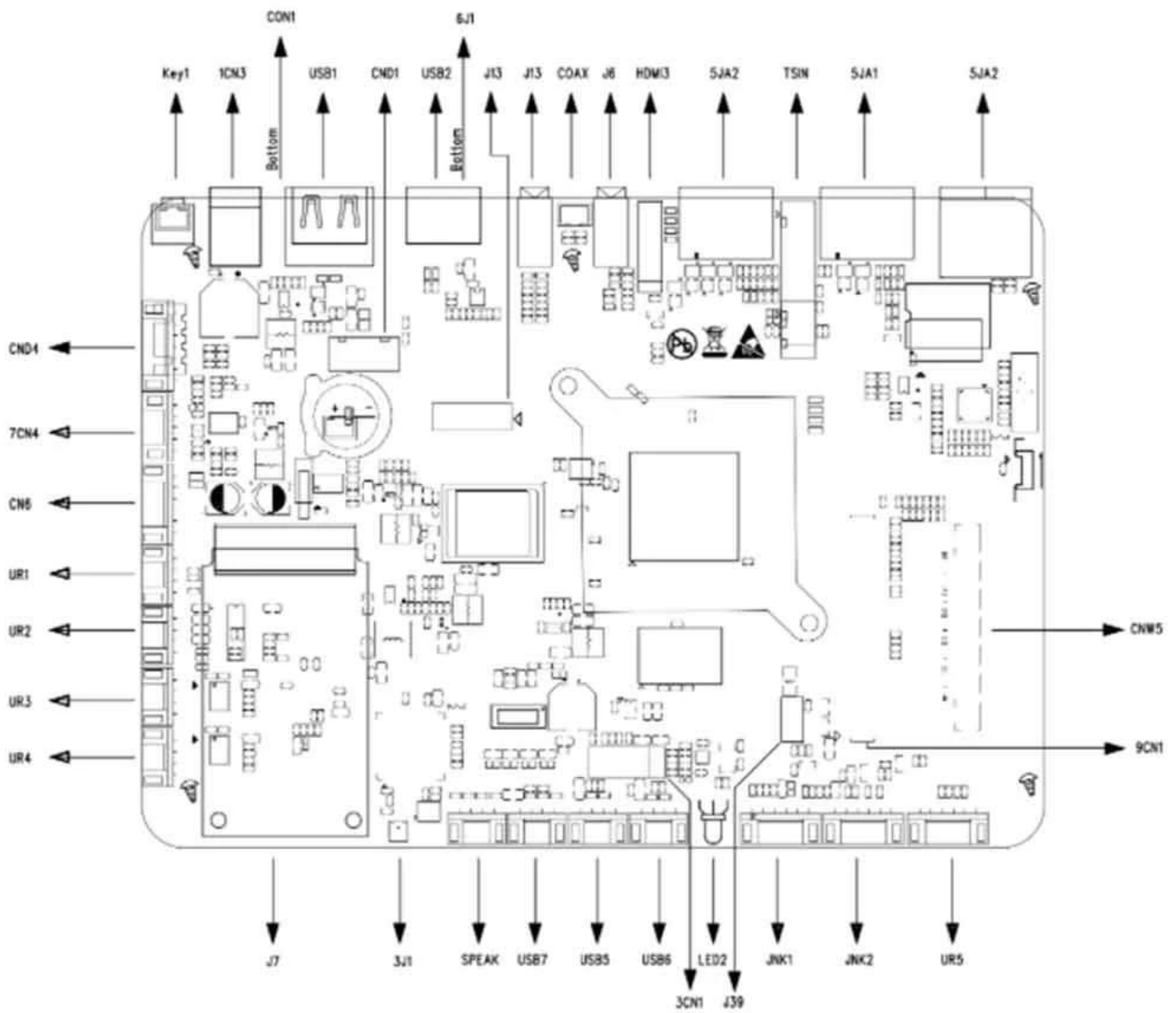
Audio	<p>MP3, AAC, WMA, RM, FLAC, Ogg, Dolby DTS Audio 7.1/5.1</p> <p>VAD AEC</p> <p>TDM/PCM/I2S 3 384kHz x32 x 8ch</p> <p>96kHz x 32 x 32ch I2S 384kHz x 32 x 8ch</p> <p>PDM CIC, LPF HPF</p> <p>DMIC 8</p> <p>SPDIF/IEC958</p> <p>L/R 2 L/R 2</p> <p>I2S PCM</p> <p>Audio EQ/DRC</p>
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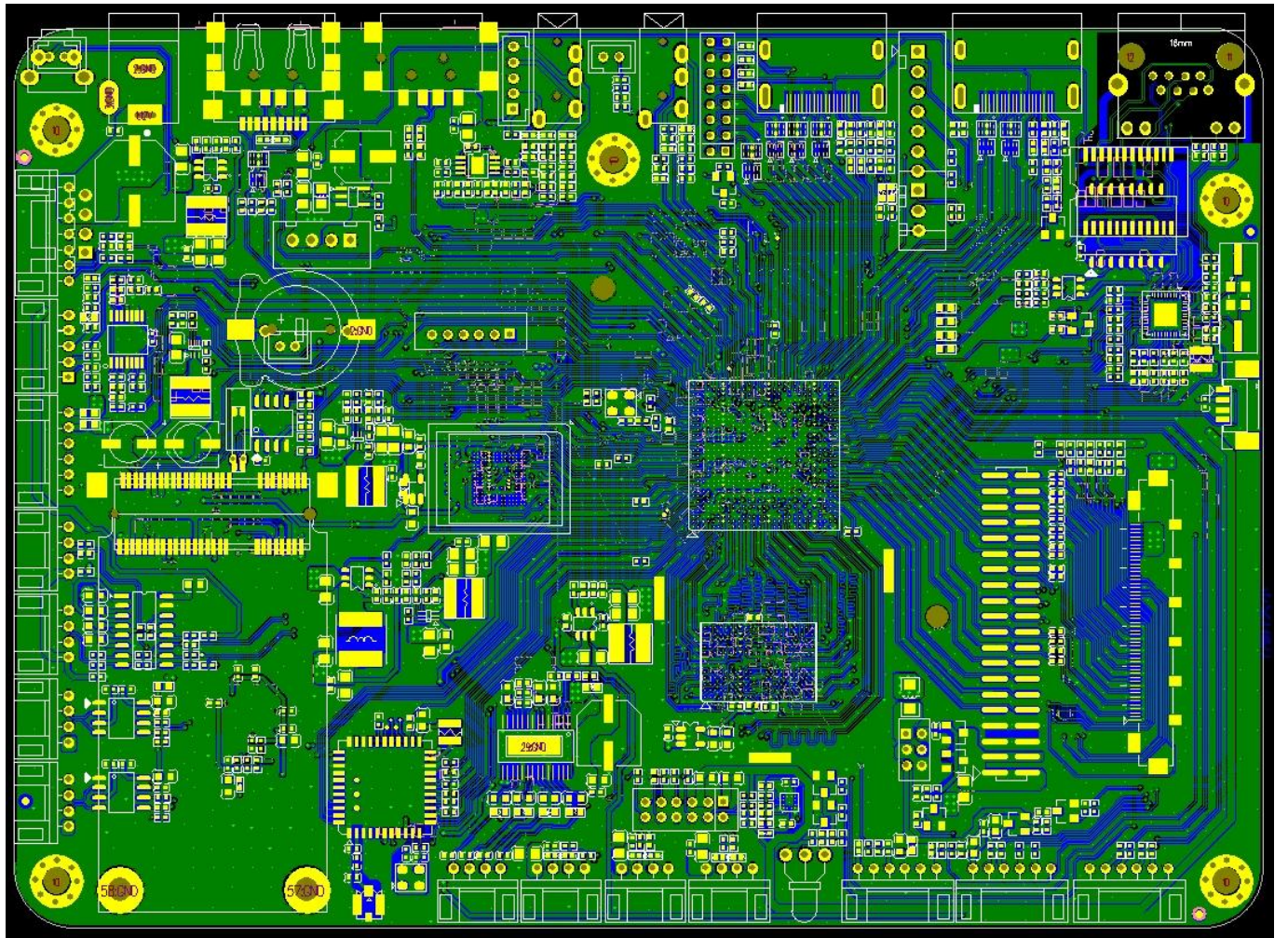
Video	<p>HD MPEG1/2/4, H.265/HEVC, HD AVC/VC-1, RM/RMVB, Xvid/DivX3/4/5/6, RealVideo8/9/10</p> <p>Avi/Rm/Rmvb/Ts/Vob/Mkv/Mov/ISO/wmv/asf/flv/dat/mpg/mpeg</p> <p>MP3/WMA/AAC/WAV/OGG/DDP/TrueHD/HD/FLAC</p>
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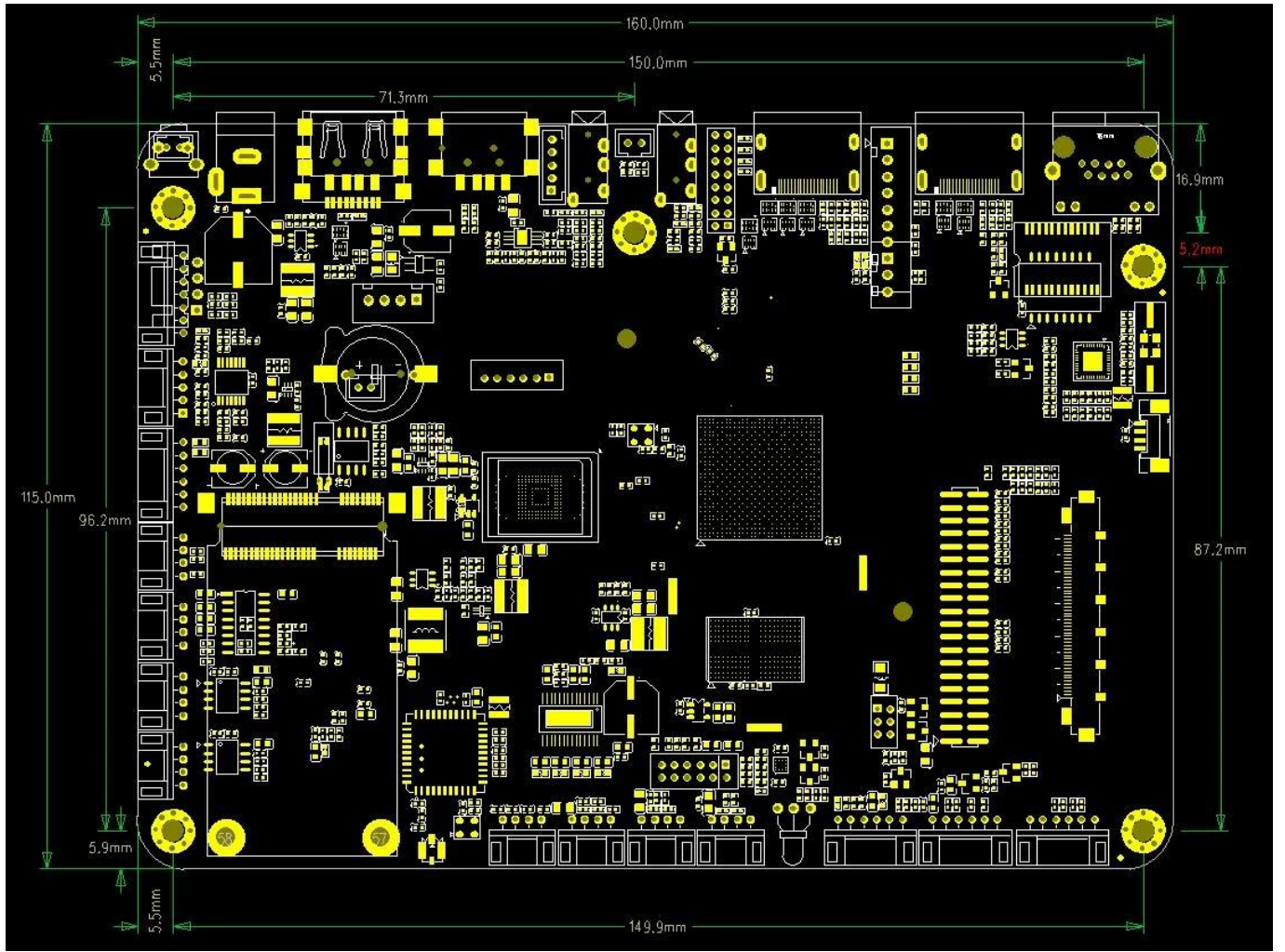
HD JPEG/BMP/GIF/PNG/TIFF	
1*3.5	
1 * LVDS 40pin 2.0	8bit / 10bit
1 * V-By-one	
HDMI*3	
4	2.5, 10W8Ω@2
*1 10M/100M RJ45	
2.4G WIFIBT	(WiFi 2.4G/5G)
PCIE(4)x1	
USB OTG * 1	(USB OTG)
USB*4	
*2, 6	2.0
*1, 7pin 2.0	LED
*4	
*1	
*1	
STB, 5VSB, 5V, 12V, 12	2.00
12V / 4pin 2.54	12V / 2.5DC

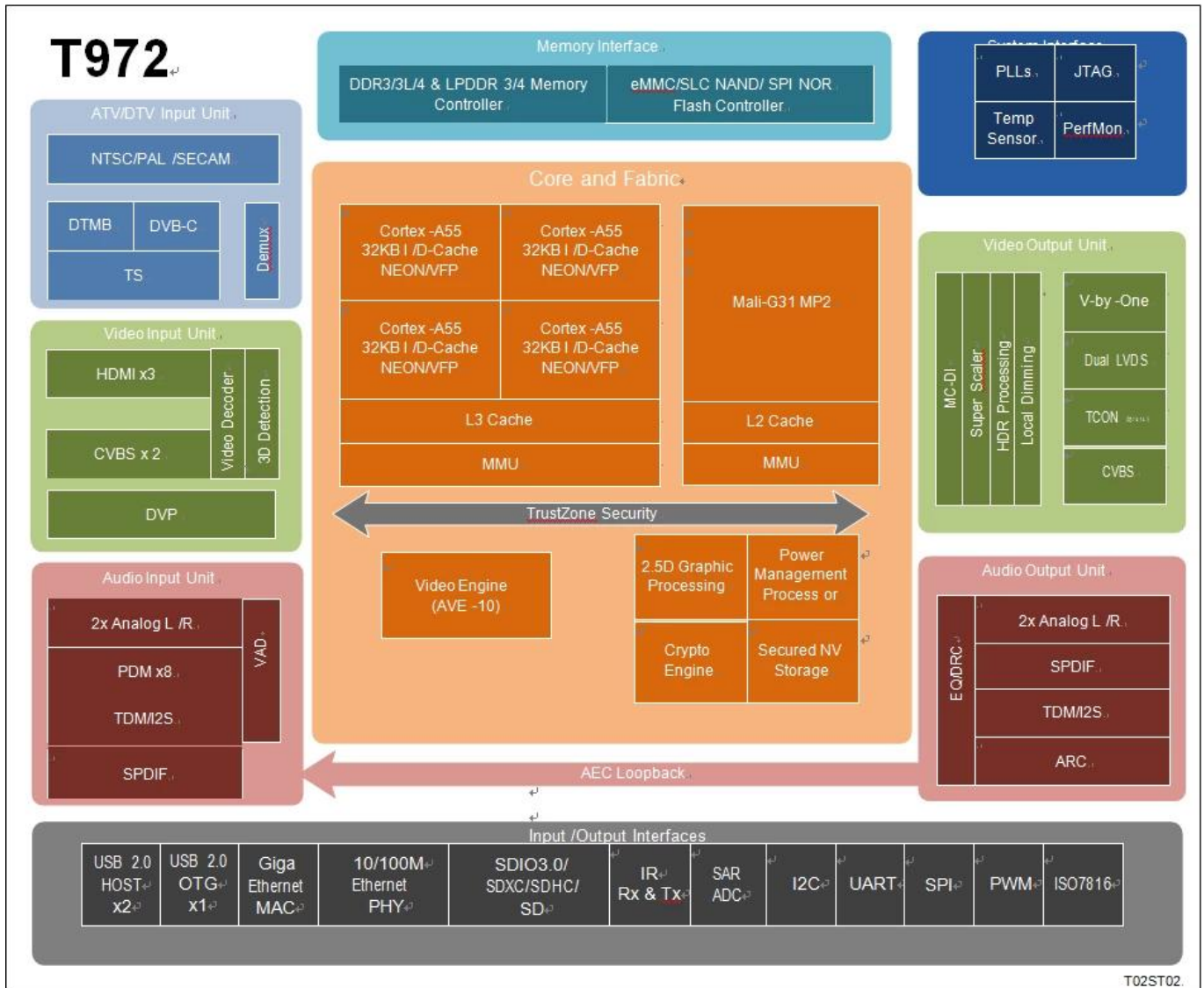
Android TV
 Youtube Netflix
 Android











T02ST02

Amlogic T972 是专为超高清电视 (UHD TV) 设计的 SoC。它集成了 CPU/GPU 处理器，支持 HDR 视频播放，并配备了 CODEC 编解码器，支持 8K/4K 超高清视频。CPU 采用 quad-core ARM Cortex-A55，并带有 L3 缓存。GPU 采用 ARM Mali-G31 MP2，支持 OpenGL ES 3.2, Vulkan 1.1 和 OpenCL 2.0。此外，它还包含 2.5D 图形处理器、功率管理处理器、加密引擎和安全的非易失性存储。Amlogic Video Engine (AVE-10) 支持 4K2K 视频播放，并集成了 Trusted Video Path (TVP) 和 DRM。它还支持多种视频编解码器，包括 MVC, MPEG-1/2/4, VC-1/WMV, AVS, AVS2, RealVideo, MJPEG, H.264, H265-10, VP9-10 和 JPEG。此外，它还支持 HDR10, HDR10+, HLG 和 Technicolor Prime HDR，以及 BT.2020/ BT.2100 色彩空间。

Amlogic T972 3D graphics, 8K video, 120Hz refresh rate, HDR, P2P, 120Hz refresh rate, UHD, TCON, CEDS, CHPI, CMPI, iSP, HDMI 2.1, 3D graphics, CVBS, 2D graphics, HDMI, HDCP 1.4/2.2, HDR, 4K2K, Amlogic T972, ATV, NTSC, PAL, SECAM, DTV, DTMB, (TS) demux, DVB Common Descrambler 1.0, DES, Triple DES (TDES/3DES), AES, ISO7816, Amlogic T972, CPU, Voice Activity Detection (VAD), MIC, PDM, TDM, I2S, 8 channels, Amlogic T972 SoC, 10/100/1000M Ethernet MAC, RGMII, 10/100M Ethernet PHY, USB 2.0, SDIO 3.0, eMMC 5.0, SLC NAND, SDIO, /SD, UART, I2C, SPI PWM, IR Blaster, QoS, DRAM, SecureOS, Linux, GNU/GCC Android tool chain, AMLOGIC

ARM Cortex-A55, ARMv8.2, L3, TrustZone, QoS, CoreSight

3, ARM Mali-G31 MP2, 4, 2x 4 (EE), OpenGL ES 3.2, Vulkan 1.1, OpenCL 2.0

2.5D, bitblt, (ROP), 4:2:0, 4:2:2, 4:4:4, 8/16/24/32

***** AES ***** 128/256 ***** 16 ***** ECB, CBC ***** CTR

***** DES/3DES ***** ECB ***** CBC ***** 64 ***** DES ***** 192 ***** 3DES

***** DVB-CSA *****

***** (TRNG) ***** SHA-1/SHA-2

CODEC ***/*******

Amlogic Video Engine (AVE-10) ***** 4Kx2K@75fps

***** VP9 2-10 ***** 8Kx4K@24fps ***** 4Kx2K@60fps

H.265 HEVC MP-10@L5.1 ***** 8Kx4K@24fps ***** 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 ***** JiZhun ***** 1080P@60fps

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

MPEG-1 MP/HL ***** 1080P@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

***** **Amlogic TruLife** ***** **9**

***** HDR10/10, HLG, Technicolor Prime HDR

***** 3D

***** , ***** , ***** , *****

3:2/2:2 ***** (VOF)

***** SuperScaler ***** , ***** , LTI, CTI,

***** , *****

3D LUT ***** 17x17x17 ***** 4913 *****

***** HSL *****

*****/*****/*****/*****

*****: ***** 2 ***** 2 *****

***** HDR *****

***** **LCD**

***** V-By-One 8 ***** 1, 2, 4 ***** 4Kx2K 60Hz

LVDS (1 / 2) / (2 / 3) HD/FHD 1920x1080Hz
mini-LVDS (1 / 2) / (2 / 3) HD/FHD 1920x1080Hz
CEDS/CHPI/CMPI/iSP 12 UHD
UHD TCON 4Kx2K 60Hz
3 LCD
Dithering LCD

3x HDMI 2.1 Dynamic HDR, ARC, HDCP 1.4 / 2.2, 4Kx2K@60
2x CVBS 480i/576i
CVBS (PAL/NTSC)
ITU 601/656 RGB565 8 bit, CCIR656, CCIR601, YUV422, YCbCr422

MP3, AAC, WMA, RM, FLAC, Ogg, Dolby DTS Audio
7.1/5.1
VAD AEC
TDM/PCM/I2S 3 TDM/PCM 384kHz x 32 x 8ch
96kHz x 32 x 32ch I2S 384kHz x 32 x 8ch
PDM CIC, LPF HPF DMIC
8
SPDIF/IEC958
L/R 2 L/R 2
I2S PCM
Audio EQ/DRC

NTSC, NTSC-J, PAL-BG, PAL-DK1, PAL-I, PAL-DK, PAL-M, PAL-N, SE- CAM-DK2, SECAM-DK3, SECAM-L ATV
BTSC, A2, EIA-J NICAM
V-chip
DTMB/DVB-C/ DTV
Build-in VIF demodulator IF

DTV
3x Transport stream (TS) demux
PWM, I2C SPI
ISO 7816

DRAM 32 4GB
JEDEC DDR3-2133 /DDR3L-2133 /DDR4-2666 /LPDDR3-2133 /LPDDR4-3200 SDRAM
SDSC/SDHC/SDXC SDIO 1 4
2.x/3.x/4.x DS/HS UHS-I SDR104
eMMC 1/4/8
5.0 HS400
SLC NAND

OTP 4K

IEEE 802.3 10/100/1000M

MAC RGMII

PHY 10/100M

WiFi/IEEE802.11 USB SDIO

Bluetooth USB UART

WIFI BT

I/O

USB I/O USB 2.0 USB USB OTG

UART I2C PWMs SPI

IR-blaster

SAR ADC 10 4

IO

DMA

24 MHz

ICE/JTAG

CPU, DRAM

PLL

I/O 1.8V 3.3V

(TEE) Trustzone

OTP DRAM

RNG

Trusted Video Path (TVP)

(SecureOS)

IO

Streaming Media Player

Wi-Fi, USB HDMI

RoHS