

Android Cloud 4K

Android Media Player	Amlogic T972(T962X2) ARM Cortex A55 1.98GHZ
ARM Cortex A55 1.98GHZ	Penta Core ARM Mail-450
ARM Mail-450	DDR4 2GB/4GB ()
DDR4 2GB/4GB ()	16GB eMMC () 128GB SD/USB
16GB eMMC () 128GB SD/USB	Android 9.0
Android 9.0	CODEC
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
VP9 2-10 8Kx4K@24fps 4Kx2K@60fps	<ul style="list-style-type: none"> -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
MP3, AAC, WMA, RM, FLAC, Ogg, Dolby DTS Audio	<ul style="list-style-type: none"> MP3, AAC, WMA, RM, FLAC, Ogg, Dolby DTS Audio 7.1/5.1 VAD AEC TDM/PCM/I2S 3 TDM/PCM 384kHz x32 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
HD MPEG1/2/4, H.265/HEVC, HD AVC/VC-1, RM/RMVB, Xvid/DivX3/4/5/6, RealVideo8/9/10	<ul style="list-style-type: none"> HD MPEG1/2/4, H.265/HEVC, HD AVC/VC-1, RM/RMVB, Xvid/DivX3/4/5/6, RealVideo8/9/10
Avi/Rm/Rmvb/Ts/Vob/Mkv/Mov/ISO/wmv/asf/flv/dat/mpg/mpeg	<ul style="list-style-type: none"> Avi/Rm/Rmvb/Ts/Vob/Mkv/Mov/ISO/wmv/asf/flv/dat/mpg/mpeg
MP3/WMA/AAC/WAV/OGG/DDP/TrueHD/HD/FLAC	<ul style="list-style-type: none"> MP3/WMA/AAC/WAV/OGG/DDP/TrueHD/HD/FLAC
HD JPEG/BMP/GIF/PNG/TIFF	<ul style="list-style-type: none"> HD JPEG/BMP/GIF/PNG/TIFF

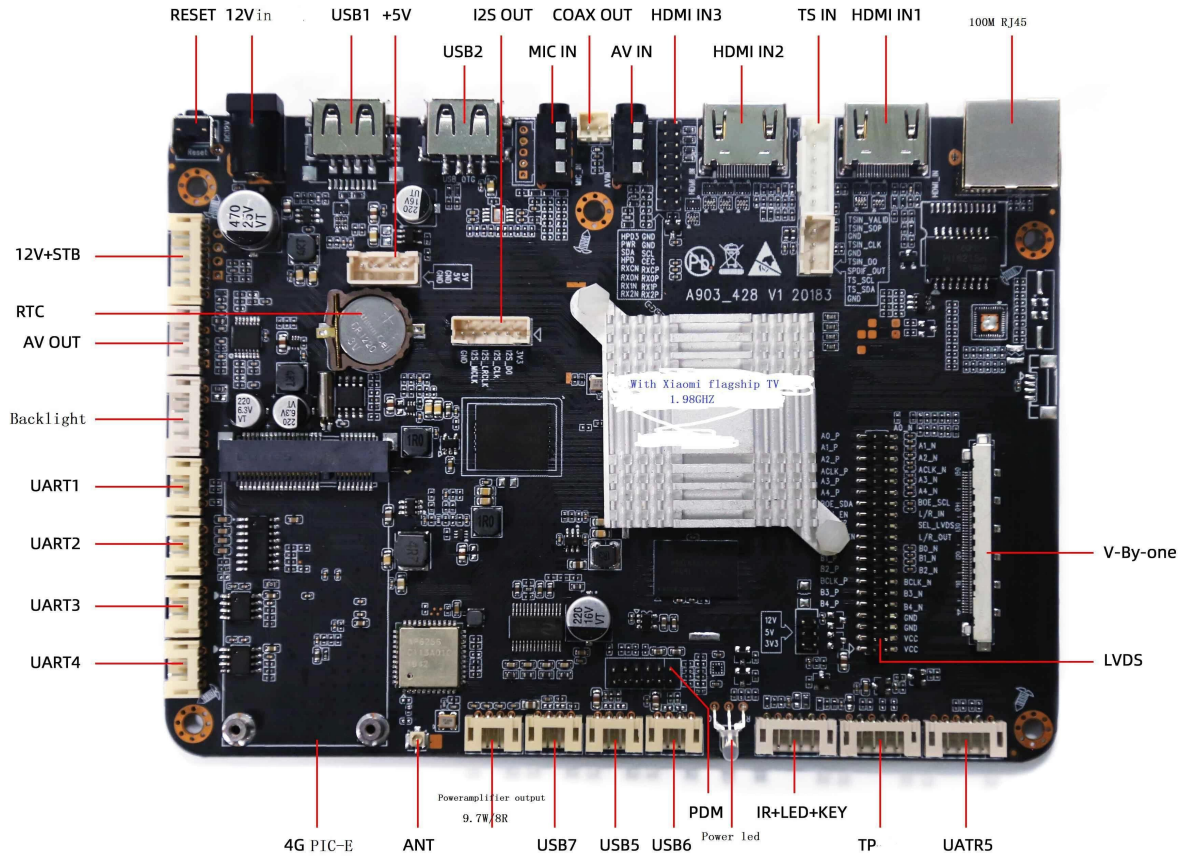
1 * LVDS 40pin 2.0
 1 * V-By-one
 HDMI*3
 4 * 2.5. 10W8Ω@2
 *1 10M/100M RJ45
 2.4G WIFIBT (WiFi 2.4G/5G)
 PCIE(4)x1
 USB OTG * 1
 USB*4
 *2, 6 * 2.0
 *1, 7pin 2.0 LED
 *4
 *1
 *1

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*4
 *2, 6 * 2.0
 *1, 7pin 2.0 LED
 *4
 *1
 *1

USB2.0

STB, 5VSB, 5V, 12V, 12 * 2.0
 12V / 4pin 2.54 12V / 2.5DC

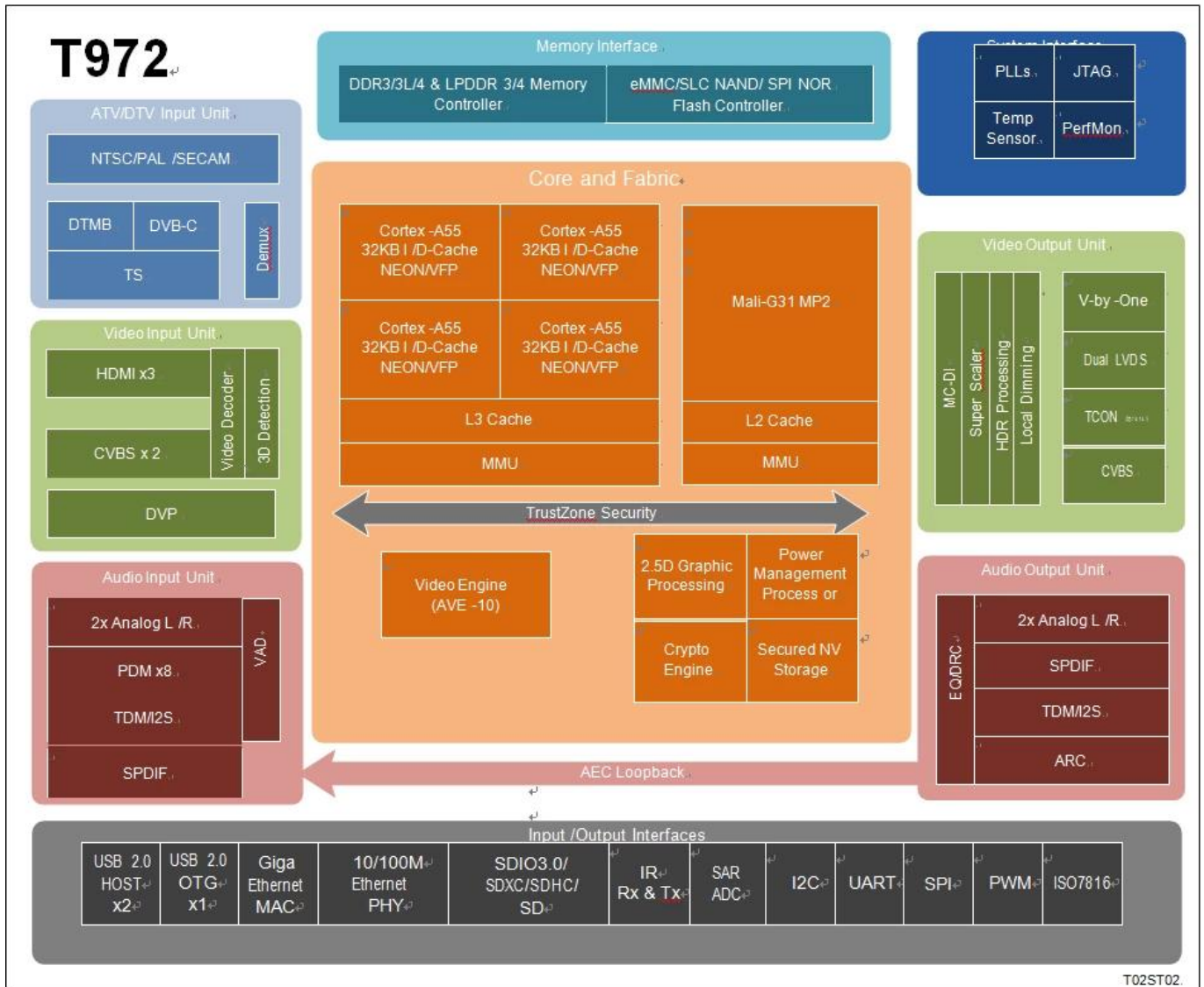
ONENUTS











T02ST02

Amlogic T972 专为 4K/8K UHD TV 设计，搭载 4 核 CPU/GPU，支持 HDR 视频播放，集成 CODEC 支持 8K/4K 视频编解码。CPU 采用 quad-core ARM Cortex-A55，集成 L3 缓存。GPU 采用 Mali-G31 MP2，支持 OpenGL ES 3.2, Vulkan 1.1 及 OpenCL 2.0。内置 2.5D 图形处理引擎，支持 HDR10, HDR10+, HLG 等 HDR 格式。集成 Video Engine (AVE-10) 支持 Trusted Video Path (TVP) 及 DRM。支持 MVC, MPEG-1/2/4, VC-1/WMV, AVS, AVS2, RealVideo, MJPEG, H.264, H265-10, VP9-10 等视频格式。集成 E-SDR, 2x Analog L/R, SPDIF, TDM/2S, ARC 等音频接口。支持 USB 2.0 HOST/OTG, Giga Ethernet MAC, 10/100M Ethernet PHY, SDIO3.0/SDXC/SDHC/SD, IR Rx & Tx, SAR ADC, I2C, UART, SPI, PWM, ISO7816 等接口。支持 PLLs, JTAG, Temp Sensor, PerfMon 等功能。

Amlogic T972 3D graphics, 8K video, 120Hz refresh rate, HDR, P2P, UHD, TCON, CEDS, CHPI, CMPI, iSP, HDMI 2.1, 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

AES 128/256
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)
.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
HDR
LCD

Support V-By-One 8 channels 1, 2, 4 channels 4Kx2K 60Hz
Support LVDS 1920x1080 60Hz
Support mini-LVDS (1 channel 6 pins)/(2 channels 3 pins) HD/FHD 1920x1080Hz
Support CEDS/CHPI/CMPI/iSP 12 UHD TCON 4Kx2K 60Hz
Support 3 channels LCD
Support 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 bits, CCIR656, CCIR601, YUV422, YCbCr422

Support MP3, AAC, WMA, RM, FLAC, Ogg, Dolby DTS Audio
Support 7.1/5.1
VAD AEC
Support TDM/PCM/I2S 3 channels TDM/PCM 384kHz x32bits x 8ch
96kHz x 32bits x 32ch I2S 384kHz x 32bits x 8ch
Support PDM CIC, LPF HPF DMIC
8 channels
Support SPDIF/IEC958
Support L/R 2 channels L/R 2 channels
Support I2S PCM
Support Audio EQ/DRC

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

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

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

