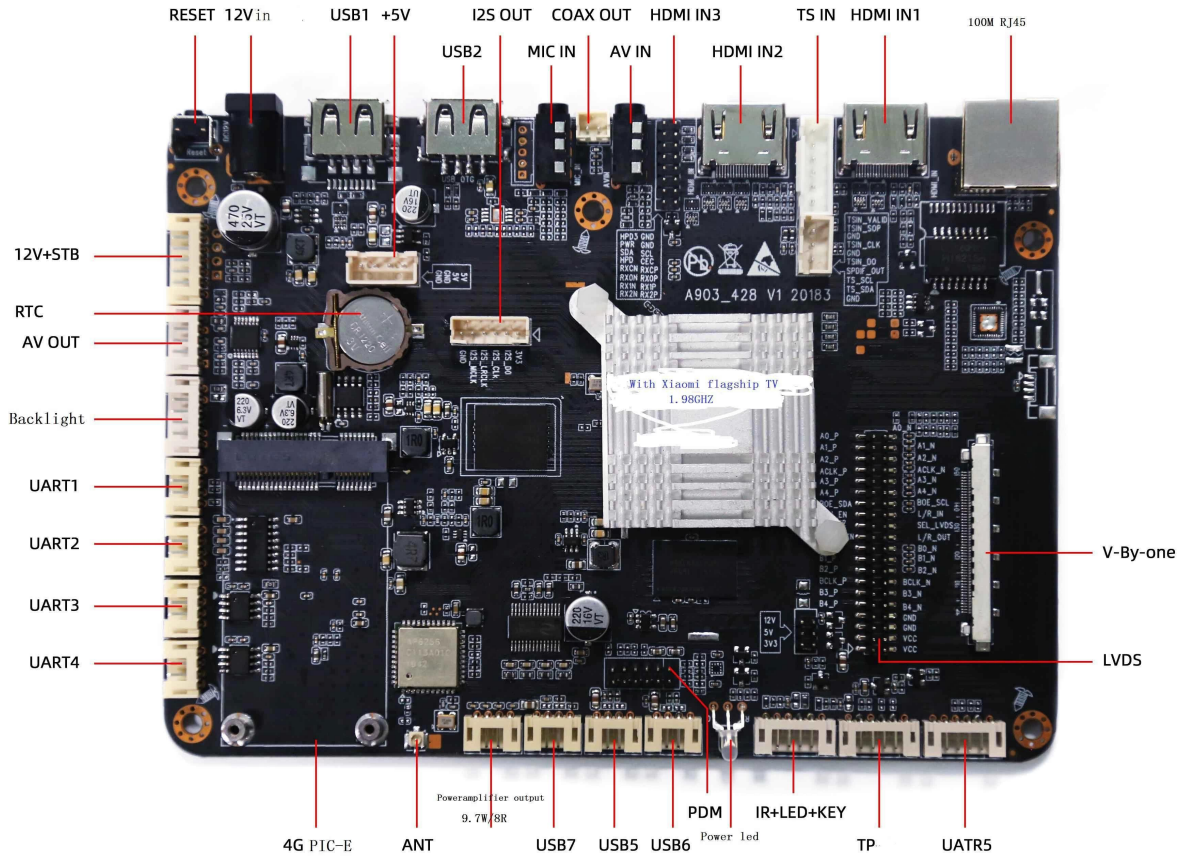


□□ T972 □□□□□□□□

| | |
|---------------|--|
| □□ | □□ T972 |
| □□□□ | □□ T972(T962X2) □□ ARM Cortex A55 1.98GHZ |
| □□□□ | □□ ARM Mail-450 |
| □□ | DDR4 2GB/4GB□□□□ |
| □□□□ | 16GB eMMC□□□□SD/USB□□□□128GB□ |
| □□□□ | □□9.0 |
| □□□□□□ | |
| □□/□□□□□□ | <ul style="list-style-type: none"> -Amlogic □□□□ (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 □□□□□□□□ 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 □□□□ |
| □□/□□□□ | <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 □□□□□□□□ 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 □□□□ |
| □□□□□□□□□□/□□ | <ul style="list-style-type: none"> □□ MP3□AAC□WMA□RM□FLAC□Ogg□Dolby DTS □□ □□□□□□ 7.1/5.1 □□□□□□ □□□ VAD □□□ AEC □□□□ 3 □□□ TDM/PCM/I2S □□□TDM/PCM □□□□ 384kHz x32bits x 8ch □ 96kHzx 32bits x 32ch□I2S □□□□ 384kHz x 32bits x 8ch □□□□□ PDM □□□□□□□□□□ CIC□LPF □ HPF□□□□□ 8 □ DMIC □□□□□□□□□ SPDIF/IEC958□□ 2□L/R□□□□□□□□2□L/R□□□□ □□I2SPCM□□□□□□□□□□□□□□ □□□□□□□□□□ EQ/DRC |
| □□□□□ | □□MPEG1/2/4□H.265/HEVC□□□AVC/VC-1□RM/RMVB□Xvid/DivX3/4/5/6□RealVideo8/9/10 |
| □□□□ | Avi/Rm/Rmvp/Ts/Vob/Mkv/Mov/ISO/wmv/asf/flv/dat/mpg/mpeg |
| □□□□ | MP3/WMA/AAC/WAV/OGG/DDP/TrueHD/HD/FLAC/APE |
| □□□□ | □□ JPEG/BMP/GIF/PNG/TIFF |
| □□ | |
| □□□□ | 1* 3.5MM□□□□ |
| □□□□ | 1*LVDS 40pin 2.0mm□□□□□□8bit/10bit□ |
| | 1*V-By-one□□□ |
| □□□□ | HDMI*3 |
| □□□□ | 4□2.5mm 10W8Ω@2 |

| | |
|----------|------------------------------|
| □□□□ | *1□10M/100M RJ45 |
| | 2.4G WIFIBT□□□2.4G/5G WiF□□□ |
| | PCIE□□(4)x1 |
| USB2.0□□ | USB OTG*1(□□HOST) |
| | USB□□*4 |
| □□□□ | *2□6□2.0mm |
| □□□□ | *1□7pin 2.0mm□□LED□□□□□□□□ |
| □□□□ | □□*4 |
| TF□□ | *1 |
| SIM□□ | *1 |
| □□ | |
| □□ | □□□□5VSB□5V□12V□12□2.00mm |
| | 12V/4□2.54mm□12V/2.5DC□□ |

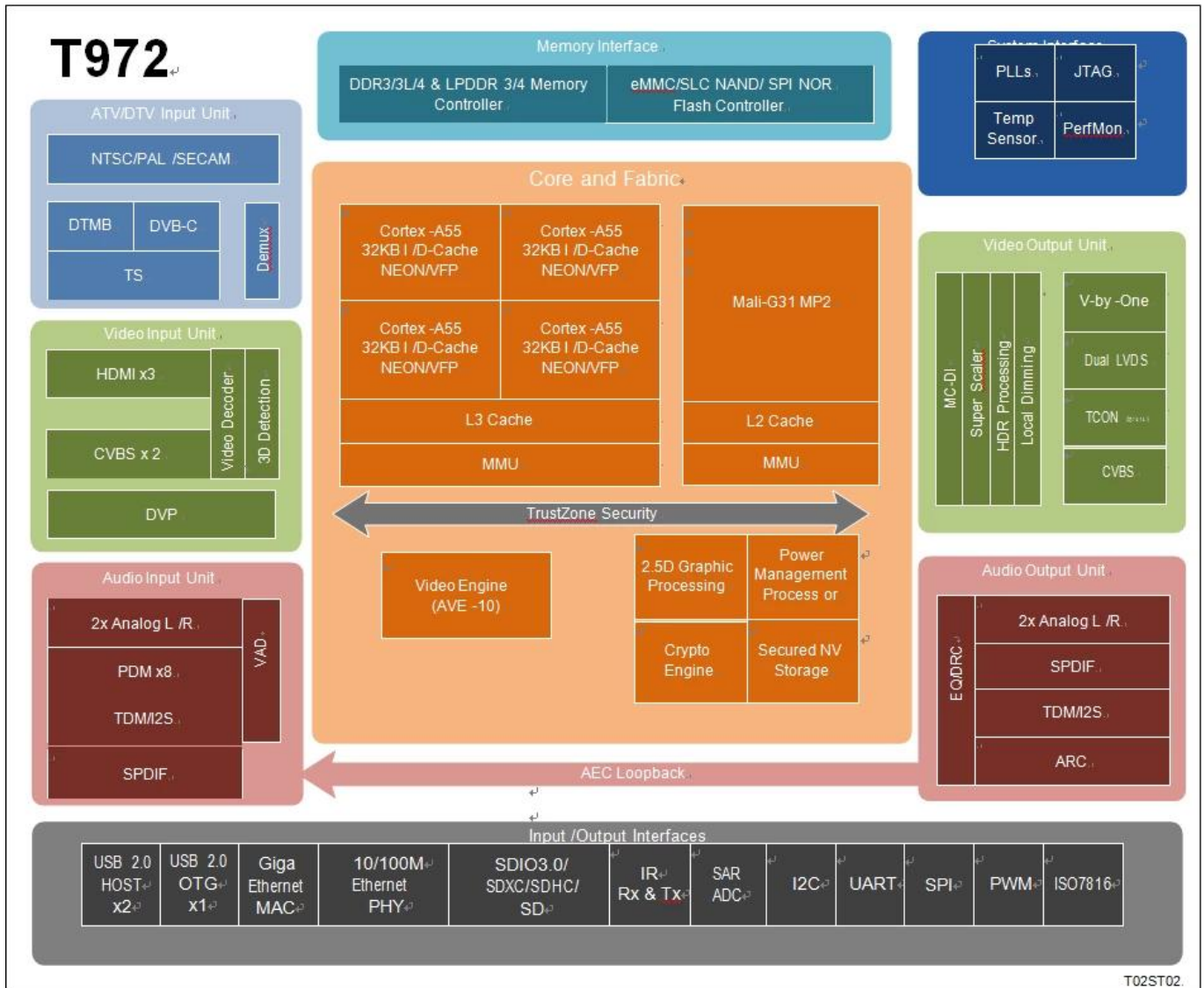
ONENUTS











T02ST02

Amlogic T972 SoC is a high-performance system-on-chip (SoC) designed for next-generation smart TVs and set-top boxes. It features a powerful CPU/GPU architecture, supporting 8K/4K video processing and HDR10/HDR10+ content. The SoC is built on the ARM Cortex-A55 CPU and Mali-G31 MP2 GPU, offering excellent performance and power efficiency. It includes a comprehensive set of input/output interfaces, including USB 2.0, Ethernet, SDIO, and various digital and analog video/audio ports. The T972 also integrates advanced security features like TrustZone and a secure boot process, ensuring the integrity of the system. Its audio capabilities include support for 8-channel PDM and TDM, as well as high-quality analog and digital audio outputs. The SoC is designed to provide a seamless user experience with its support for various video standards and high-resolution displays.

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QoS DRAM
SecureOS Linux GNU/GCC Android AMLOGIC

CPU

ARM Cortex-A55 CPU
Neon ARMv8.2
L3
TrustZone
QoS
CoreSight

3D

ARM Mali-G31 MP2 GPU
4x4 (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

Crypto

128/256 16 ECB CBC CTR AES
ECB CBC DES/3DES DES 64 3DES 192
DVB-CSA
(TRNG) SHA-1/SHA-2

Video

Amlogic (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 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

9 Amlogic TruLife

HDR10/10 HLG Technicolor Prime HDR

3D

3:2/2:2 (VOF)

SuperScaler LTI CTI

17x17x17 3D LUT 4913

HSL

2

HDR

8 V-By-One 1 4 4Kx2K 60Hz

LVDS 1920x1080 60Hz

1 6 3 mini-LVDS HD/FHD 1920x1080Hz

12 CEDS/CHPI/CMPI/iSP UHD UHD TCON-less 4Kx2K 60Hz

LCD

3 HDMI 2.1 HDR ARC HDCP 1.4 /2.2 4Kx2K@60

2 CVBS 480i/576i

CVBS PAL/NTSC

ITU 601/656 8 RGB565 CCIR656 CCIR601 YUV422 YCbCr422

MP3 AAC WMA RM FLAC Ogg Dolby DTS 7.1/5.1

VAD AEC

3 TDM/PCM/I2S TDM/PCM 384kHz x32bits x 8ch 96kHz x 32bits x 32ch I2S

384kHz x 32bits x 8ch

PDM CIC LPF HPF 8 DMIC

SPDIF/IEC958

2 L/R 2 L/R

I2SPCM

EQ/DRC

NTSC NTSC-J PAL-BG PAL-DK1 PAL-I PAL-DK PAL-M PAL-N SECAM-DK2 SECAM-

DK3 SECAM-L ATV

BTSC A2 EIA-J NICAM

V-chip

DTMB/DVB-C/DTV

VIF IF

3x (TS)

PWM I2C SPI

符合 ISO 7816 规范

存储器

支持 4GB 闪存 32 GB DRAM

支持 JEDEC DDR3-2133 / DDR3L-2133 / DDR4-2666 / LPDDR3-2133

/LPDDR4-3200 SDRAM

支持 SDSC/SDHC/SDXC 支持 SDIO 支持 1 至 4 通道 2.x/3.x/4.x DS/HS 支持 UHS-I SDR104

eMMC 支持 1/4/8 通道 5.0 HS400

支持 SLC NAND

支持 4K 支持 OTP

网络

支持 IEEE 802.3 10/100/1000M 支持 MAC 支持 RGMII

支持 10/100M PHY

支持 USB 支持 SDIO 支持 WiFi/IEEE802.11

支持 USB 支持 UART

支持 WIFI 支持 BT

支持 I/O

支持 USB 2.0 支持 USB I/O 支持 2 支持 USB Host 支持 1 支持 USB OTG

支持 UART 支持 I2C 支持 PWM SPI

支持

支持 10 支持 SAR ADC 支持 4 支持

支持 IO

支持

支持 DMA 支持

支持 24 MHz

支持 ICE/JTAG

电源

支持

支持 CPU 支持 DRAM

支持 PLL

支持 1.8V 支持 3.3V 支持 I/O

安全

支持 Trustzone 支持 (TEE)

支持 OTP 支持 DRAM

支持 RNG

支持 ID

支持 (TVP) 支持 SecureOS

支持 IO

封装

支持 FCBGA 支持 19 mm x 19 mm 支持 0.65 支持 RoHS

支持 Amlogic T972

Amlogic T972 支持 Amlogic T972 支持 4K HDR

支持 Amlogic T972

支持

Amlogic T972 Wi-Fi HDMI USB

Amlogic T972

Amlogic T972 Android Linux DIY

Amlogic T972 Amlogic T972