

PCBA T972 Android 9.0
HDMI V-by-one 4K P
/ Smart Home / Kiosk / LCD

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| Processor | T972 |
| GPU | T972(T962X2) ARM Cortex A55 1.98GHZ |
| Chipset | Penta Core ARM Mail-450 |
| RAM | DDR4 2GB/4GB (LPDDR4) |
| Storage | 16GB eMMC (Optional 128GB SD/USB) |
| OS | Android 9.0 |

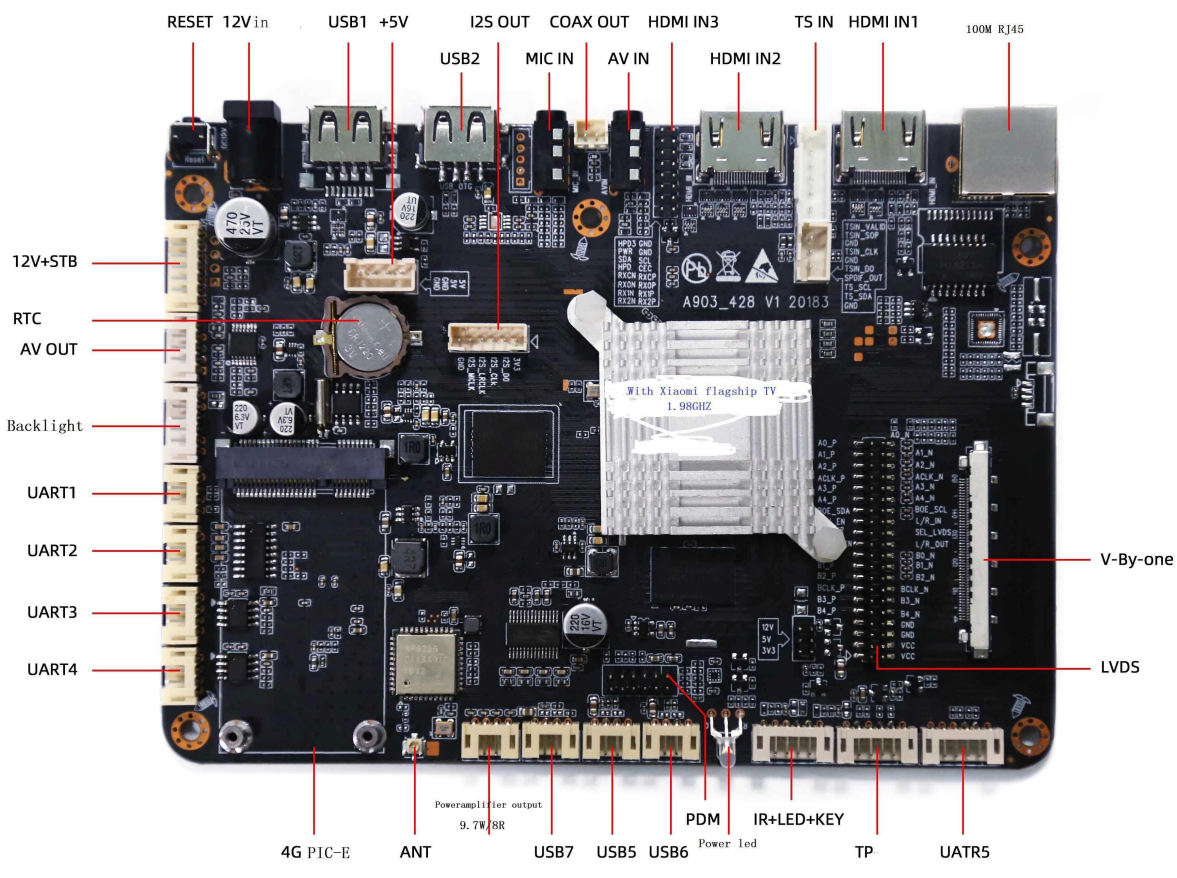
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| CODEC | <ul style="list-style-type: none"> -Amlogic Video Engine (AVE-10) 4Kx2K@75fps - VP9 2-10 8Kx4K@24fps 4Kx2K@60fps -H.265 HEVC MP-10@L5.1 8Kx4K@24fps 4Kx2K@60fps -AVS2-P2 4Kx2K@60fps -H.264 AVC HP@L5.1 4Kx2K@30fps -H.264 MVC 1080P@60fps -MPEG-4 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 TDM/PCM 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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| □□□□□□□□□□ | Avi/Rm/Rmvp/Ts/Vob/Mkv/Mov/ISO/wmv/asf/flv/dat/mpg/mpeg |
| □□□□□□□□□□ | MP3/WMA/AAC/WAV/OGG/DDP/TrueHD/HD/FLAC/□□□□ |
| □□□□□□□□□□□□ | HD JPEG/BMP/GIF/PNG/TIFF |
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| | 1 * V-By-one □□□□□□□□□□□□□□□□□□□□□□ |
| □□□□□□□□□□□□ | HDMI*3 |
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| □□□□□□□□□□□□ | *1 10M/100M RJ45 |
| | 2.4G WIFIBT (□□□□□□□□ WiFi 2.4G/5G □□□□□□□□□□) |
| | □□□□□□ PCIE(4)x1 |
| □□□□□□ USB2.0 | USB OTG * 1 (□□□□□□□□□□□□□□) |
| | □□□□□□ USB*4 |
| □□□□□□□□□□□□□□□□ | *2, 6□□□ 2.0□□ |
| □□□□□□□□□□□□□□□□ | *1, 7pin 2.0 □□. □□□□□□□□□□□□□□□□□□□□□□ LED (□□□□□□□□□□) |
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| □□□□□□□□□□□□□□ | STB, 5VSB, 5V, 12V, 12□□□ 2.00□□ |
| | □□□□□ 12V / 4pin 2.54 □□. 12V / 2.5DC |

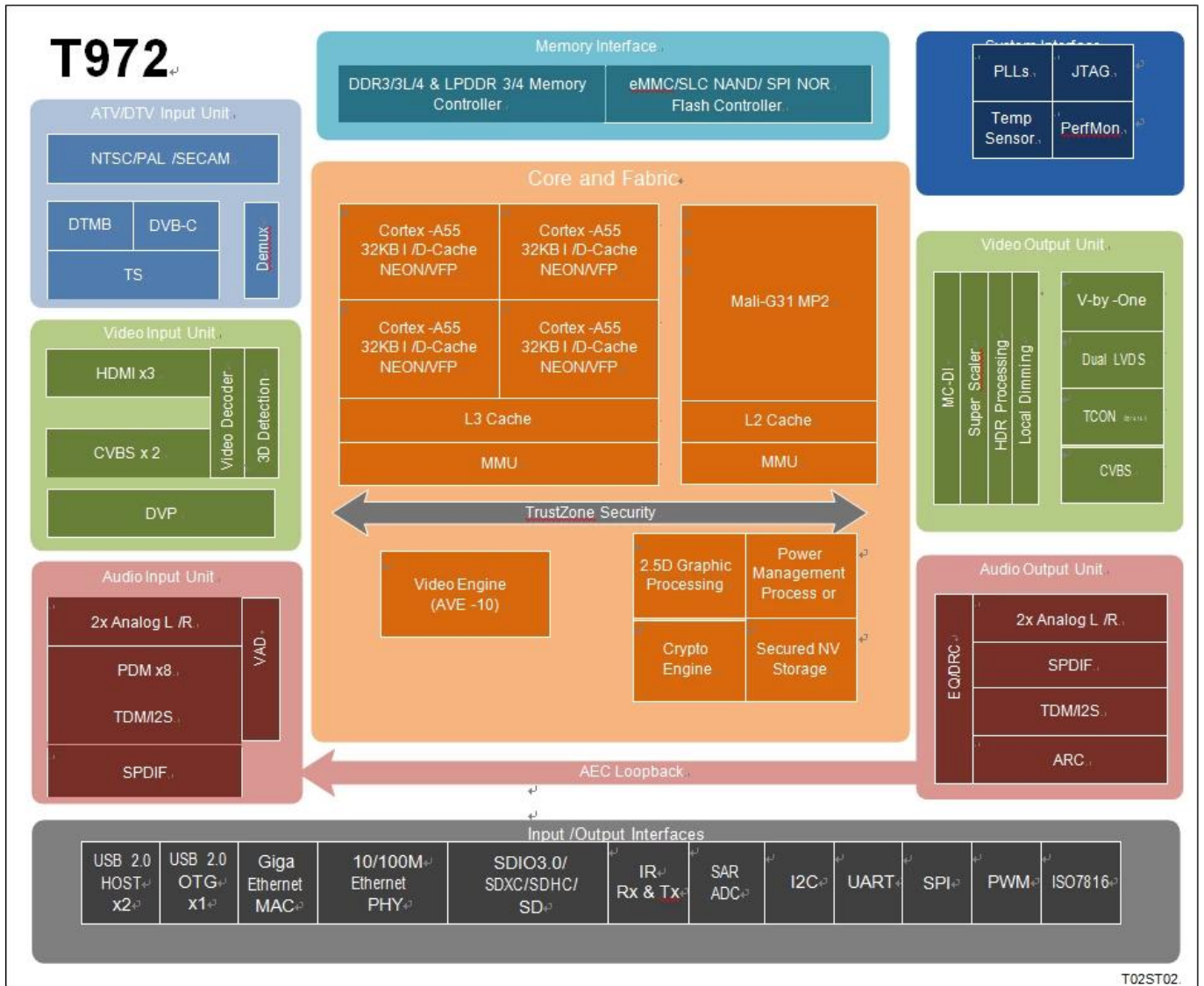
ONENUTS











T972 支持 4K/4K 超高清电视 (UHD TV) 播放，支持 HDR 视频播放，支持 CPU/GPU 加速，支持 8K/4K 视频播放，支持 CODEC 解码，支持 2.5D 图形处理，支持 Power Management Processor，支持 Crypto Engine，支持 Secured NV Storage，支持 AEC Loopback，支持 EQ/DFC，支持 2x Analog L/R，支持 SPDIF，支持 TDM/2S，支持 ARC，支持 USB 2.0 HOST x2，支持 USB 2.0 OTG x1，支持 Giga Ethernet MAC，支持 10/100M Ethernet PHY，支持 SDIO3.0/SDXC/SDHC/SD，支持 IR Rx & Tx，支持 SAR ADC，支持 I2C，支持 UART，支持 SPI，支持 PWM，支持 ISO7816。

Amlogic Video Engine (AVE-10)

支持 CPU Cortex-A55 加速，支持 CODEC 解码，支持 AVE-10 加速，支持 4K2K 播放，支持 Trusted Video Path (TVP)，支持 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，支持 JPEG，支持 HDR10, HDR10+, HLG，支持 Technicolor Prime HDR，支持 BT.2020/ BT.2100，支持 AEC Loopback。

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)

Video V-By-One 8 bit 1, 2, 4 channel 4Kx2K 60Hz
LVDS 1920x1080 60Hz
mini-LVDS (1 channel 6 bit)/(2 channel 3 bit) HD/FHD 1920x1080Hz
CEDS/CHPI/CMPI/iSP 12 bit UHD TCON 4Kx2K 60Hz
3 channel 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 channel TDM/PCM 384kHz x32bit x 8ch
96kHz x 32bit x 32ch I2S 384kHz x 32bit x 8ch
PDM CIC, LPF HPF DMIC
8 channel
SPDIF/IEC958
L/R 2 channel L/R 2 channel
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 bit 4GB
JEDEC DDR3-2133 /DDR3L-2133 /DDR4-2666 /LPDDR3-2133
/LPDDR4-3200 SDRAM
SDSC/SDHC/SDXC SDIO 1 channel 4 bit
2.x/3.x/4.x DS/HS UHS-I SDR104
eMMC 1/4/8 bit
5.0 HS400

Supports SLC NAND
Supports OTP 4K

Supports IEEE 802.3 10/100/1000M MAC, RGMII PHY 10/100M
Supports WiFi/IEEE802.11, USB, SDIO, Bluetooth, USB, UART
Supports WIFI, BT

Supports I/O: USB 2.0, USB OTG, UART, I2C, PWMs, SPI, IR-blaster, SAR ADC 10-bit, 4-channels IO, DMA, 24 MHz, ICE/JTAG

Supports CPU, DRAM, PLL, I/O 1.8V, 3.3V

Supports (TEE), Trustzone, OTP, DRAM, RNG, Trusted Video Path (TVP), SecureOS, IO

FCBGA, 19 x 19, 0.65, RoHS

Supports PCBA, Amlogic T972, Android 9.0, HDMI 4K, V-by-one, POS, LCD

Supports PCBA, Amlogic T972, Quad-Core, GPU

Android 9.0 PCBA

PCBA Android 9.0 POS

PCBA HDMI

PCBA HDMI

V-by-one 4K PCBA

V-by-one 4K PCBA LCD

PCBA

PCBA Wi-Fi, Bluetooth, Ethernet, USB GPIO

PCBA Amlogic T972 Android 9.0 HDMI

PCBA Amlogic T972 Android 9.0 HDMI 4K V-by-one POS, LCD