Amlogic A311D2 □□□ Android Smart Integrated Board

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□□□□□□	Amlogic A311D2 □□□□□□□□ Cortex-A73 □□□□□□□□ Cortex-A53
□□□□□□	□□□□□□□-G52 MP8
□□□	4GB (□□□□□□ 8GB/32GB □□□□□□□□□□□□□□□)
□□□	32GB (□□□□□□□□ 64GB/128GB/256GB)
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□□□□□□□□ LVDS	1 □□□□□□/□□□ □□□□□□□□□□□□ LCD 50/60Hz □□□□□□□□□
□□□□□□□□ V-By-One	2*8 □□□ V-by-One □□□□□□ 4Kp60; □□□□□□□□□□□□□□□ 4K*2K@60Hz
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	□□□□□□□ 5V/12V, Local Dimming □□□□ PWM dimming
□□□□□□□□□□□□□□□□	1 * □□□□□ USB 3.0 A □□□□□ USB 2.0 A (□□□□□□□□□□□□□□□□□□□□□□□) □□□□ (mini USB OTG □□□□□□□□□□□□□□□)
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□□□□□□□□□□	□□□□□□□□ SPDIF □□□□ COAX □□□□□□□□□□□□□□□□
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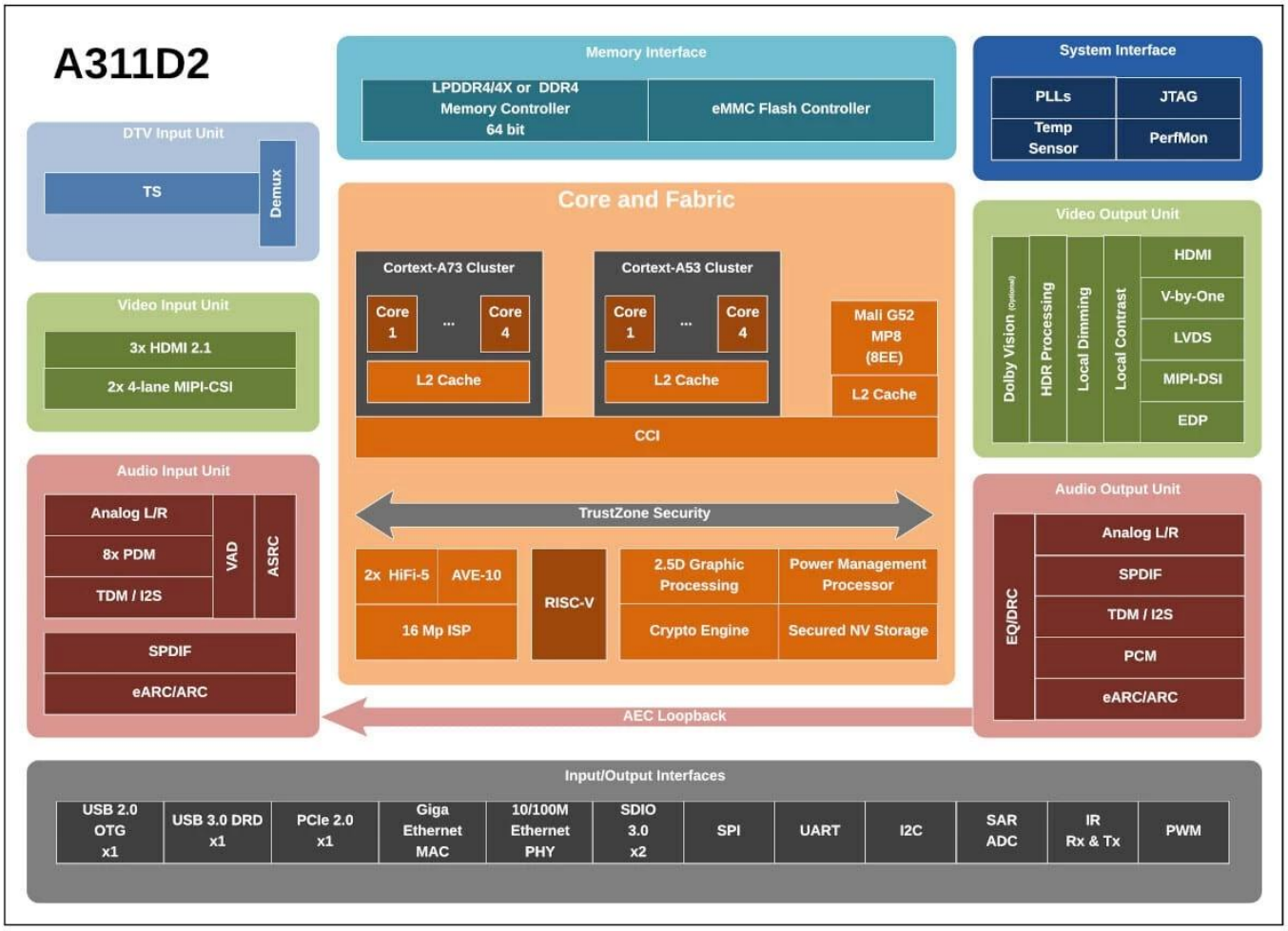
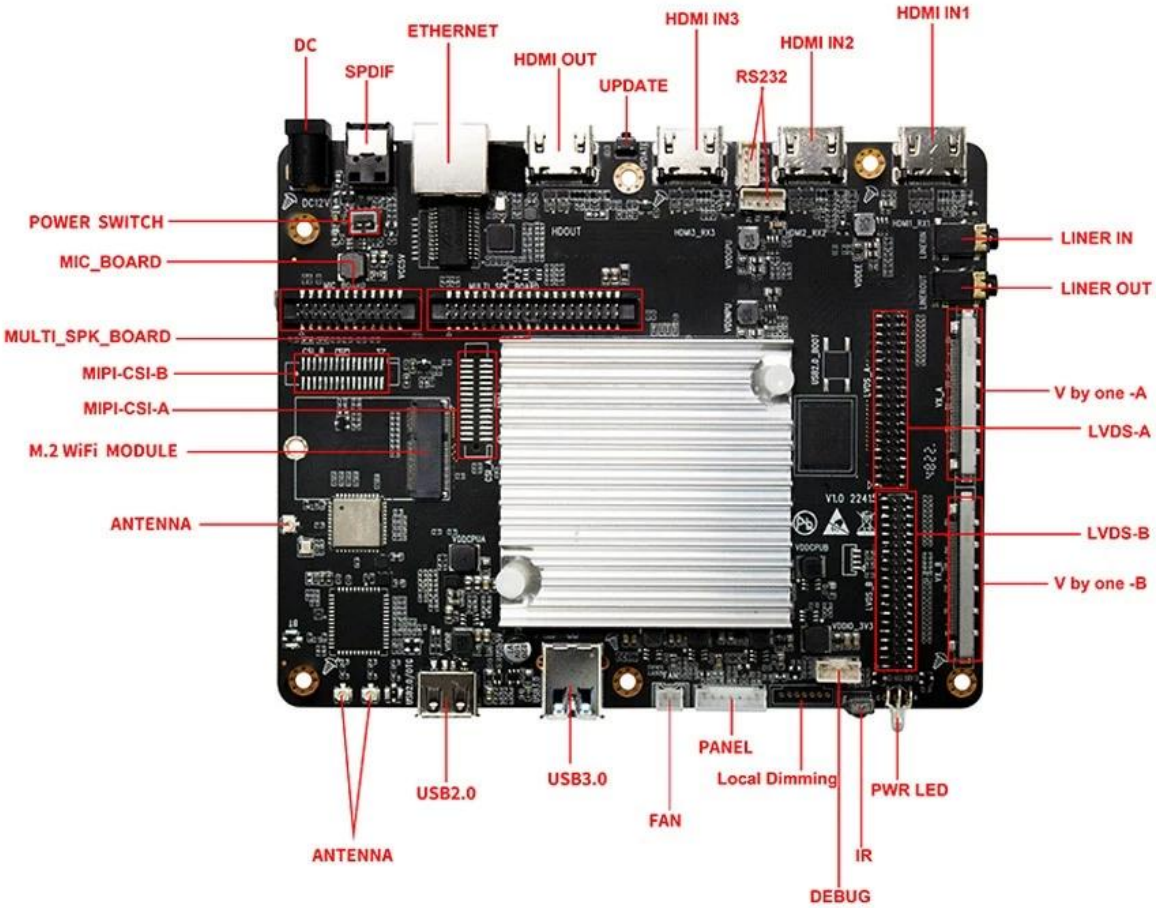
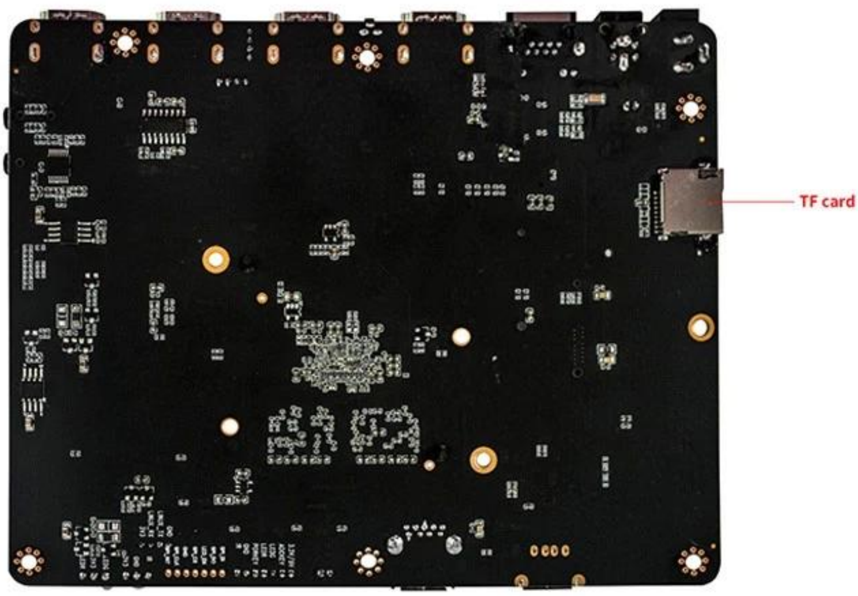
□□ LED □□□□□□□□□	□□
□□□□□□□	□□ TF & USB □□□□ OTA
□□□□□□□□□□□□□□□	□□□□□□□ 5V/12V


A311D2
Memory Interface
LPDDR4/4X or DDR4 Memory Controller 64 bit
eMMC Flash Controller
System Interface
PLLs
JTAG
Temp Sensor
PerfMon
DTV Input Unit
TS
Demux
Core and Fabric
Cortex-A73 Cluster
Core 1
...
Core 4
L2 Cache
Cortex-A53 Cluster
Core 1
...
Core 4
L2 Cache
Mali G52 MP8 (8EE)
L2 Cache
CCI
Video Output Unit
Dolby Vision (Optional)
HDR Processing
Local Dimming
Local Contrast
HDMI
V-by-One
LVDS
MIPI-DSI
EDP
Video Input Unit
3x HDMI 2.1
2x 4-lane MIPI-CSI
Audio Input Unit
Analog L/R
8x PDM
TDM / I2S
VAD
ASRC
SPDIF
eARC/ARC
TrustZone Security
2x HiFi-5
AVE-10
16 Mp ISP
RISC-V
2.5D Graphic Processing
Power Management Processor
Crypto Engine
Secured NV Storage
Audio Output Unit
EQ/DRC
Analog L/R
SPDIF
TDM / I2S
PCM
eARC/ARC
AEC Loopback
Input/Output Interfaces
USB 2.0 OTG x1
USB 3.0 DRD x1
PCIe 2.0 x1
Giga Ethernet MAC
10/100M Ethernet PHY
SDIO 3.0 x2
SPI
UART
I2C
SAR ADC
IR Rx & Tx
PWM

T08ST01

ONENUTS


DC
SPDIF
ETHERNET
HDMI OUT
UPDATE
HDMI IN3
RS232
HDMI IN2
HDMI IN1
POWER SWITCH
MIC_BOARD
MULTI_SPK_BOARD
MIPI-CSI-B
MIPI-CSI-A
M.2 WiFi MODULE
ANTENNA
LINER IN
LINER OUT
V by one -A
LVDS-A
LVDS-B
V by one -B
ANTENNA
USB2.0
USB3.0
FAN
PANEL
Local Dimming
DEBUG
IR
PWR LED



Amlogic A311D2 [illegible] Android Smart Integrated Board

[illegible]

Amlogic A311D2 [illegible] [illegible] Android [illegible] [illegible] LCD [illegible] Android [illegible] LVDS [illegible] V-by-one [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]: [illegible], [illegible], [illegible] [illegible]

[illegible]

Amlogic A311D2 [illegible] Android Smart Integrated Board [illegible] Amlogic A311D2 [illegible] Android 11.0; [illegible] Octa-core [illegible] Smart Display, Quad-Core Cortex-A73 [illegible] Quad-Core Cortex-A53 [illegible] 2.2GHz; [illegible]-G52 MP8 (8EE) GPU; [illegible] 4Kp60 [illegible] 3*HDMI 2.1, ISP 16MP [illegible] 4K [illegible] 4K*2K@60fps, H.265 hard decode [illegible]

[illegible]

* [illegible] V-By-One / LVDS [illegible]
*[illegible] Ethernet & WiFi ([illegible] M.2) [illegible] RTC;
* [illegible]: 1 * [illegible] USB OTG, 1 * [illegible] USB 3.0 A, [illegible] RS232 2 *, [illegible] TTL 1 *, [illegible] 1 * ADC;
[illegible]
* [illegible] HDMI LVDS [illegible] HDMI V-by-one [illegible];
*[illegible]: [illegible] 4K*2K@60fps [illegible] LCD [illegible] LVDS [illegible] V-By-One;
*2*4 [illegible] MIPI-DSI [illegible] 1920*1200;
*[illegible] Android [illegible] API [illegible]
*[illegible] AV1, MP-10, VP9, AVS2, MPEG2, MPEG4, H.265, wmv, mkv, mov, iso [illegible]
*[illegible] 4K;
*[illegible] 4K;

Amlogic A311D2 [illegible] Android Smart Integrated Board [illegible]:

1. [illegible]: [illegible] Amlogic A311D2 [illegible]

2. [illegible] **4K**: [illegible] 4K [illegible] HD [illegible]

3. [illegible]: [illegible] HDMI, [illegible] USB, [illegible]

4. [illegible]: [illegible] "[illegible]

5. [illegible]: [illegible] Android [illegible]

6. [illegible]: [illegible]

7. [illegible]: [illegible]

8. [illegible]: [illegible]

9. [illegible]: [illegible]

[illegible]. Amlogic A311D2 [illegible] Android Smart Integrated Board [illegible]