

# Amlogic A311D2

## Processor

Processor	Amlogic A311d2
GPU	Amlogic A311D2 Cortex-A73 Cortex-A53
GPU	Mali-G52 MP8
RAM	4GB (Optional 8GB/32GB)
Storage	32GB (Optional 64GB/128GB/256GB)
OS	Android 11.0
Network	Wi-Fi (Optional 2.4G; Optional 2.4G/5G); BT4.2 BT5.0 (Optional M.2)

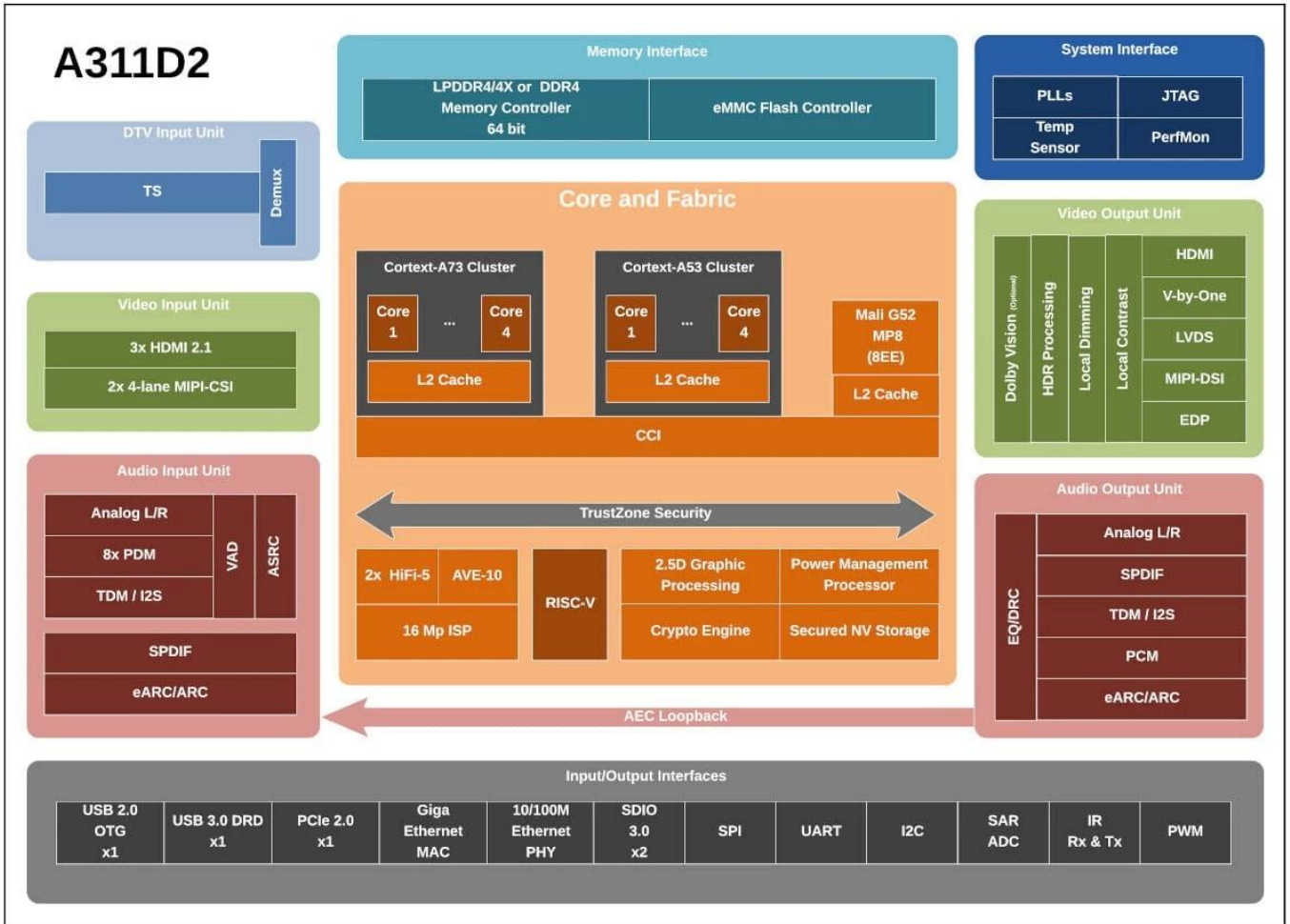
## Connectivity

HDMI	3 * HDMI
HDMI	1 * HDMI
LVDS	1 * LVDS LCD 50/60Hz
V-By-One	2*8 V-by-One 4Kp60; 4K*2K@60Hz
Power	5V/12V, Local Dimming PWM dimming
USB	1 * USB 3.0 A
USB	USB 2.0 A (Optional mini USB OTG)
Serial	2 * RS232 (2 * TTL); TF 1 * (Optional)
Camera	2 * CSI
Camera	Camera CSI
Camera	I2S
Network	1 * RJ45, 100M / 1000M
Audio	SPDIF COAX
Audio	AUDIO_
Audio	AUDIO_
Camera	Camera
Camera	IR (Optional IR)
LED	LED
OTA	TF & USB OTA

Power 5V/12V







T085T01

## Amlogic A311D2 Android

Amlogic A311D2 Android Smart Integrated Board

Amlogic A311D2 Android Smart Integrated Board features a powerful Octa-core processor, including a Quad-Core Cortex-A73 and a Quad-Core Cortex-A53, both running at 2.2GHz. It is equipped with the Mali-G52 MP8 (8EE) GPU, capable of 4Kp60 video playback. The board supports 3x HDMI 2.1 and 2x 4-lane MIPI-CSI for camera input. It also features a 16MP ISP and H.265 hard decode for video processing. The board is designed for a wide range of applications, including smart displays, digital signage, and embedded systems. It offers various input/output interfaces, including USB 2.0 OTG, USB 3.0 DRD, PCIe 2.0, Giga Ethernet MAC, 10/100M Ethernet PHY, SDIO 3.0, SPI, UART, I2C, SAR ADC, IR Rx & Tx, and PWM. The board is powered by a 5V/2A USB-C port and includes a 3.3V regulator for logic power. It also features a 1.8V regulator for the SPI flash and a 1.2V regulator for the L2 cache. The board is available in a 144-pin QFN package.

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