

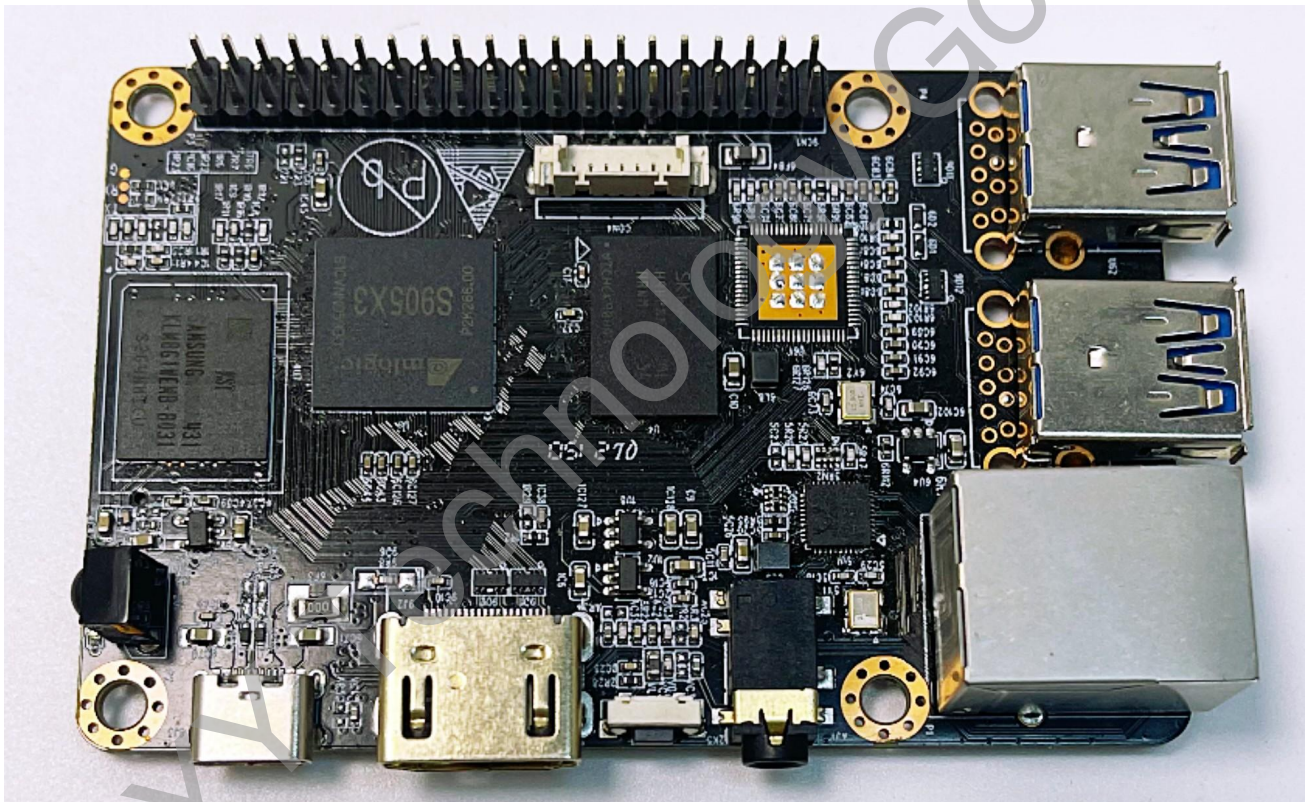


Durian Pi specification

HYY-D1

HYY-D1 Product introduction

The Durian Pi HYY-D1 is a single board computer designed by HYY company based on the Amlogic S905X3 chip. It adopts a 12nm process, four 64 bit ARM A55 architecture CPUs, integrates G31 GPU, supports 8K encoding and decoding, and supports multiple systems such as Linux and Android. The specifications and performance of HYY-D1 can be completely comparable to Odroid C4 and Raspberry PI 4. In the current global shortage of Raspberry PI, BPI-M5 is a very good substitute. Moreover, the supply of HYY-D1 is relatively stable, which is an advantage for the project.



Specifications

Basic Specifications	
SOC	Amlogic S905X3
CPU	64-bit quad core ARM Cortex A55
GPU	Mali-G31 MP2 GPU
VPU	Video decoding:
	4Kx2K@24fps H.265/VP9/AVS2
	4Kx2K@20fps H.264/AVC/MVC
	4K@60fps AV1
	1080P@60fps MPEG-2/-1/VC-1/VP8
	Video encoding:
	4x1080p@30fps encoding, Supports H.265/H.264
	* Supports *.mkv, *.wmv, *.mpg, *.mpeg, *.dat, *.avi, *.mov, *.osp, *.mp4, *.rm and *.jpg file formats
RAM	2GB
Storage	8GB/16GB/32GB/64GB eMMC
Storage Expansion	1x TF CARD
Hardware Specifications	
Ethernet	1 x GbE
Display	Video output:
	1 x HDMI2.1 (8K@60fps or 4K@120fps)
	1 x AV
Audio	1 x AV output
	1 x HDMI Audio output
USB	4 x USB3.0
	1 x Micro USB2.0
IO	1 x UART, 1 x 40 Pin Header: GPIO(x28) and Power(+5V, +3V and GND)
OS/Software	
OS	Android 9
	Linux
	* Supports UEFI Boot
General	
Size	56mm x 58mm

7 Pin assignment

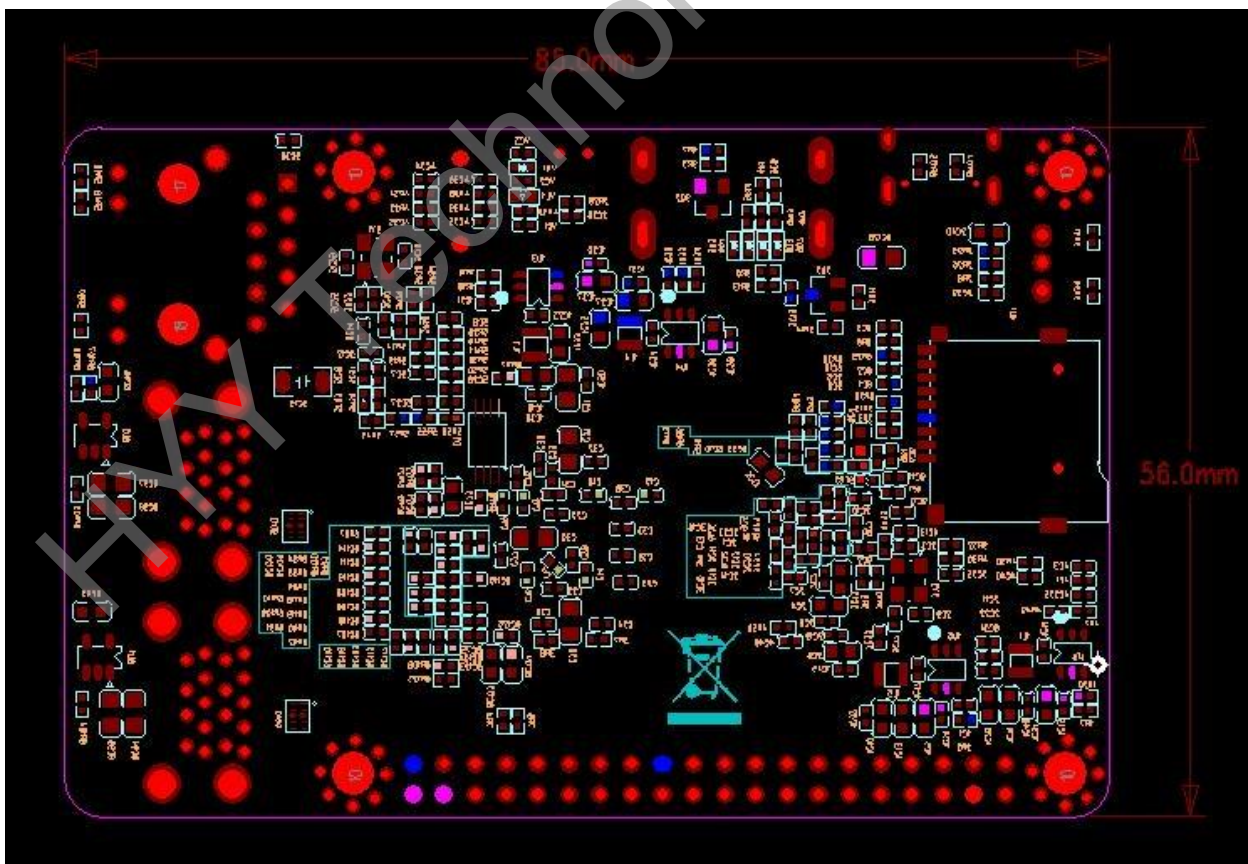
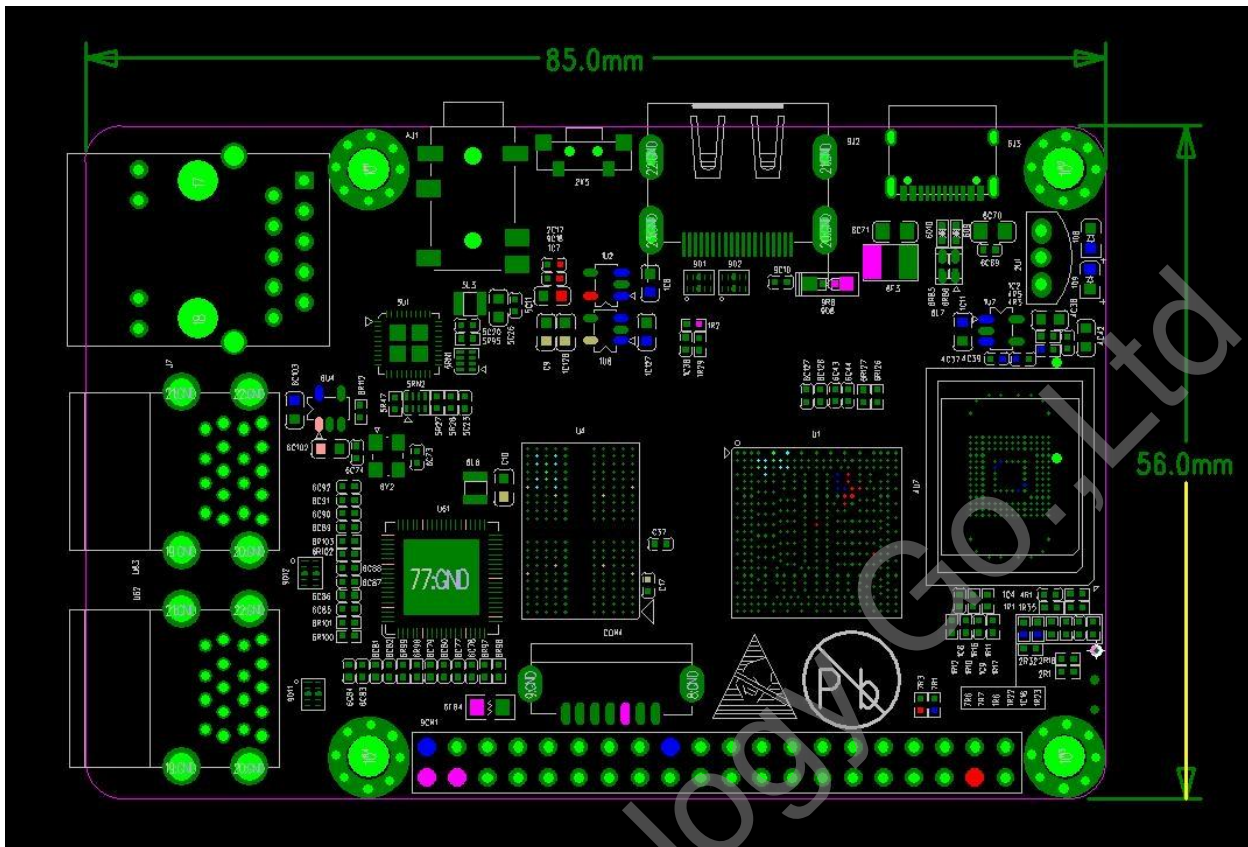
Pin	Symbol	Description
1	GND	Ground
2	GPIOAO_10	GPIO
3	VCC	5V Input
4	GPIOAO_9	I2S_MCLK
5	GPIOAO_7	I2S_LRCLK
6	GPIOAO_8	I2S Clock
7	GPIOAO_4	I2S output

40 Pin assignment

Pin	Symbol	Description
1	VCC	3.3V Input
2	VCC	5V Input
3	GPIX_17	I2C_EE_M2_SDA
4	VCC	5V Input
5	GPIOX_18	I2C_EE_M2_SCL
6	GND	Ground
7	GPIOX_5	GPIO
8	GPIOX_12	GPIO
9	GND	Ground
10	GPIOX_13	GPIO
11	GPIOX_3	GPIO
12	GPIOX_16	GPIO
13	GPIOX_4	GPIO
14	GND	Ground
15	GPIOX_7	GPIO
16	GPIOX_0	GPIO
17	VCC	3.3V Input
18	GPIOX_1	GPIO
19	GPIOX_8	GPIO
20	GND	Ground

21	GPIOX_9	GPIO
22	GPIOX_2	GPIO
23	GPIOX_11	GPIO
24	GPIOX_10	GPIO
25	GND	Ground
26	GPIOH_6	GPIO
27	GPIOA_14	GPIO
28	GPIOA_15	GPIO
29	GPIOX_14	GPIO
30	GND	Ground
31	GPIOX_15	GPIO
32	GPIOH_7	GPIO
33	GPIOX_6	GPIO
34	GND	Ground
35	GPIOX_19	GPIO
36	GPIOH_5	GPIO
37	ADC_CH2	ADC
38	VCC	1.8V Input
39	GND	Ground
40	ADC_CH0	ADC

PCB size diagram



More help

If you have any questions about our products or services, you can contact us through the following ways:

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Web Store: <https://we-signage.en.made-in-china.com>

E-Mail: hejiangyan@hotmail.com

Whatsapp/Wechat: +86 18672559094

Skype: [hejiangyan_1](#)