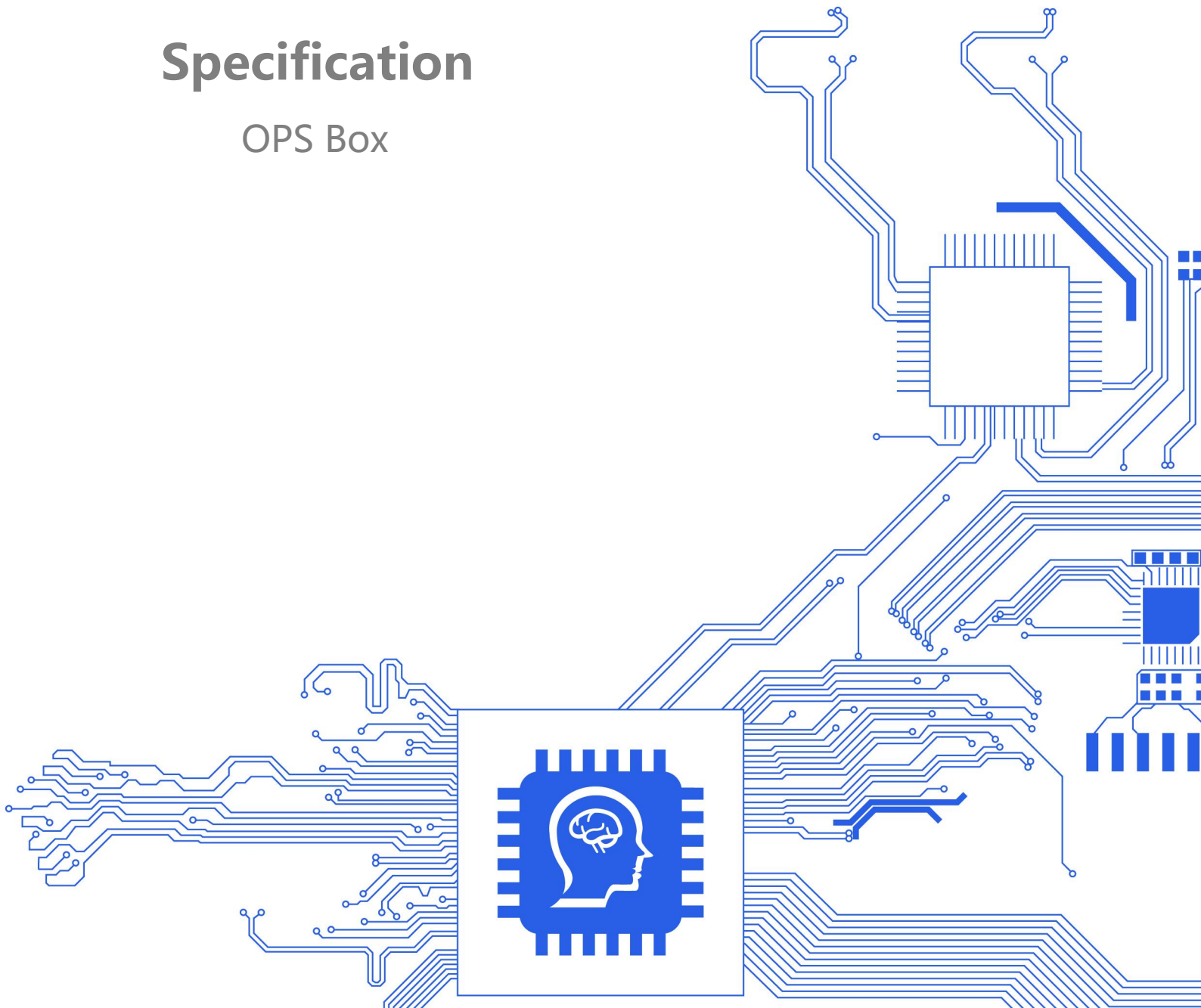


OPS-3399E

Specification

OPS Box



Modification History

Version	Modified Content	Modified by	Verified by	Date
V1.0	Established	Teng Yiping	Qiu Shunfeng	2024-05-08

Declaration

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Chapter 1 Product Overview

1.1 Scope of Application

The OPS-3399E is a standout product in the mid-range market, known for its exceptional performance. It features a standard 80-pin interface and an inbuilt RK3399 six-core processor that can reach up to 1.8GHz. The device also includes a powerful Mali-T864 GPU, offering superior computing and graphics processing capabilities. It supports the Android7.1/11.0 system. It can provide a stable, efficient, and versatile user experience, which meets the high performance demands of mid-to-high-end smart display devices. This product is widely used in educational interactive all-in-one machines, electronic whiteboards, conference tablets, and large-screen digital signage.

1.2 Appearance and Interface Diagram

Appearance diagram:







Interface diagram:



The model is: OPS PLUG seat, TX25-80P-LT-H1E, BLACK, TX25 Connector 80Pin. The power supply of the board is provided by this interface, and the power supply voltage range is +12~+19V@8AMAX. In the case of no external devices connected to the empty load, the power supply of the board must support at least 600mA current. In addition, the interface also contains HDM display signal and USB communication signal.

The detailed definition is as follows:

1	DP_TXN3	DisplayPort	41	NC	
2	DP_TXP3	DisplayPort	42	NC	
3	GND	GND	43	NC	
4	DP_TXN2	DisplayPort	44	NC	
5	DP_TXP2	DisplayPort	45	RSVD5	CN_R1_1Pin
6	GND	GND	46	RSVD6	CN_R1_2Pin
7	DP_TXN1	DisplayPort	47	RSVD7	CN_R1_3Pin
8	DP_TXP1	DisplayPort	48	RSVD8	CN_R2_1Pin
9	GND	GND	49	RSVD9	CN_R2_2Pin
10	DP_TXN0	DisplayPort	50	SYS_FAN_TACH	FAN_TACH
11	DP_TXP0	DisplayPort	51	UART_TXD	RX/TX_1Pin

12	GND	GND	52	UART_RXD	RX/TX_2Pin
13	DP_AUXN	I/O	53	GND	GND
14	DP_AUXP	I/O	54	StdA_SSRX-	USB3.0
15	DP_DET	DisplayPort	55	StdA_SSRX+	USB3.0
16	GND	GND	56	GND	GND
17	HDMI_CLK_N	DisplayPort	57	StdA_SSRX-	USB3.0
18	HDMI_CLK_P	DisplayPort	58	StdA_SSRX+	USB3.0
19	GND	GND	59	GND	GND
20	HDMI_DATA_N0	DisplayPort	60	USB_PN	USB I/O
21	HDMI_DATA_P0	DisplayPort	61	USB_PP	USB I/O
22	GND	GND	62	GND	GND
23	HDMI_DATA_N1	DisplayPort	63	USB_PN	USB I/O
24	HDMI_DATA_P1	DisplayPort	64	USB_PP	USB I/O
25	GND	GND	65	GND	GND
26	HDMI_DATA_N2	DisplayPort	66	USB_PN	USB I/O
27	HDMI_DATA_P2	DisplayPort	67	USB_PP	USB I/O
28	GND	GND	68	GND	GND
29	HDMI_SDA	I/O	69	AZ_LINEOUT_R	AUDIO_1Pin
30	HDMI_SDL	I/O	70	AZ_LINEOUT_L	AUDIO_2Pin
31	HDMI_HPD	DisplayPort	71	CEC	CN_CTL_1Pin
32	GND	GND	72	PB_DET	CN_CTL_2Pin
33	AD_IN_OPS	PWR	73	PS_ON#	CN_CTL_3Pin
34	AD_IN_OPS	PWR	74	PWR_STATUS	CN_CTL_4Pin
35	AD_IN_OPS	PWR	75	GND	GND
36	AD_IN_OPS	PWR	76	GND	GND
37	AD_IN_OPS	PWR	77	GND	GND
38	AD_IN_OPS	PWR	78	GND	GND
39	AD_IN_OPS	PWR	79	GND	GND
40	AD_IN_OPS	PWR	80	GND	GND

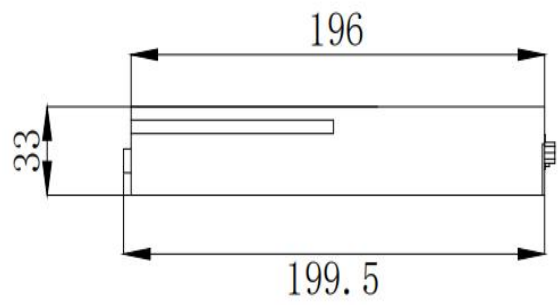
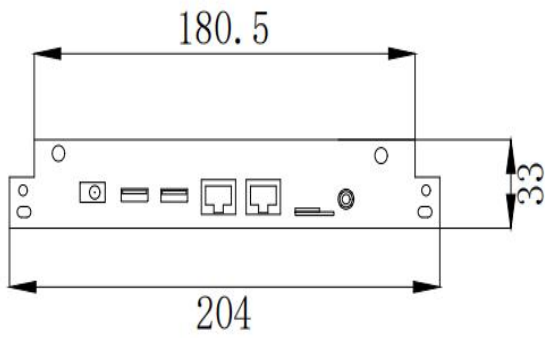
Chapter 2 Product Specifications

2.1 Specifications Table

Product Parameters		
Core parameters	CPU	RK3399, 6-core, with a maximum frequency of 1.8GHz
	Local storage	16GB (Other specifications are optional)
	DDR memory	2GB (Other specifications are optional)
Network	WiFi	Inbuilt Wi-Fi, support dual-band Wi-Fi, single antenna
	Bluetooth	BT4.0
	4G	Support Internet access via 4G module (optional)
	Ethernet	2*10M/100M//1000M adaptive Ethernet
	Antenna	1 SMA antenna interface: 4G antenna*1 WiFi antenna*1
External port	USB 3.0	1*USB3.0 (limit current to1.5A)
	USB 2.0	1*USB2.0 (limit current 1A)
	Audio interface	2 * LINE IN/ OUT, adapt 3.5mm, four-section headphone jack
	SIM card	1*Nano-SIM card interface, support for various systems (depend on 3G/4G modules) Nano SIM card size specification: 12mmx9mm Operative norm: ETSI TS 102 221 V11.0.0
Internal port	USB 2.0	1*USB2.0 (limit current to1A) 4*HUB USB2.0
Electrical source	Input voltage	DC 12~24V ($\pm 10\%$)
	Static power consumption	20W (TYP.)
	Fan	/
Environment parameter	Working temperature	0°C~60°C
	Working humidity	8%~90%RH, no condensation
	Storage temperature	-20°C~70°C, it is recommended to store at room temperature
	Storage humidity	10%~95%RH

Reliability	vibration protection	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
	surge guard	IEC 60068-2-27, half sine wave, lasting 11ms
	EM Selectrostatic disturbance resistance	GB17626.2-2018 IEC61000-4-2 level 4 standard Contact discharge 4KV/ air discharge 8KV
	EMS lightning surge	GB17626.5-2019 ±2KV
	Certification	ROHS
	Waterproof	/
Appearance information	Size	166(H)*164.2(W)*52(D)mm
	Appearance color	Black shell
	installation mode	Level surface placement or wall mounting
Packing list		box*1、instruction *1、certificate*1 (Actual shipment is more accurate.)

2.2 Product Size Diagram (Unit: MM)



Chapter 3 Notes

Please read the instructions and safety matters of this guide carefully, and strictly implement them during the use. This will help prevent damage to the host machine, prolong the service life, ensure your normal use and host maintenance, and ensure your personal safety.

- Please read the relevant documents that are attached with the random document first. If there are inserts, please read them first.
- Follow all safety warnings and signs on this product.
- Please use the original power adapter or only the power type indicated for this product.
- In the case of thunderstorms, please do not plug or unplug network cables, power cables and other conductors that may be connected to the outside world.
- Please unplug the power before cleaning this product. Please do not use liquid, spray or wet cloth for cleaning.
- Please do not dismantle the machine without permission, and do not try to repair this product by yourself.
- Please have an authorized professional do this work.
- Do not place the host near a heat source.
- Pay attention to moisture protection, do not splash water or other liquids on the host, if the following situation occurs, please immediately unplug the power of the host.
- The following special conditions require professional maintenance personnel to repair.
 1. Power cord or plug damaged.
 2. Conductive liquid splashed into the product.
 3. Product drop or serious damage to product shell.
 4. The product has unknown errors or obvious performance changes, which cannot be eliminated after conventional troubleshooting.

Statement

- In case of any change in technical specifications, no further notice will be given. The company reserves the final right of interpretation for the instructions in this manual.
- The product may not work properly when it is exposed to strong radio interference (such as electromagnetic field, static electricity or line noise). Please ensure that the product is used in normal environment.



Chapter 4 Common Troubleshooting

All products are rigorously tested before leaving the factory. They are durable and reliable. Problems you encounter during use may be due to settings or operations you have set up. Or they may be due to device compatibility issues. This troubleshooting guide helps you quickly resolve simple operational issues or identify the causes of maintenance issues.

1	The host does not enter the system after starting up.	<ol style="list-style-type: none">1. Please confirm that the power supply of the host and monitor is normal, and whether the host adapter is powered on.2. Check whether the status indicator is correct.3. Some models require a button to start up.
2	The host shuts down automatically for no reason.	<ol style="list-style-type: none">1. Check whether the power supply is disconnected and whether the power adapter is loose.2. Whether to set the timer on and off.3. Whether the application terminal is turned off actively.
3	The host restarts automatically for no reason.	Check whether the one-key restore button is located near the outside of the board (normally it should be near the inside of the board).
4	The host restarts automatically for no reason.	Check that the audio output Settings are matched (Codec/HDMI) and whether it is muted or not.
5	The network is not connected.	Check whether the network connection or router is normal, and whether the network parameter setting is normal.

Note:

1) If the host accidentally gets water or conductive liquid, please immediately cut off the power supply and dry the liquid with paper towels. Do not use a hot hair dryer. In case of serious situation, it is recommended to contact the after-sales service for consultation or send it for inspection and maintenance immediately.

2) If the mainframe slips and causes the shell deformation and damage, or the motherboard is damaged, please contact the after-sales service immediately for maintenance.

Chapter 5 Electrical Properties

Items		Minimum	Typical	Maximum
Power parameters	Voltage	--	12V	--
	ripple wave	--	--	50mV
	Current	3A		
Source current(No peripheral)	Working current	--	280mA	400mA
	Standby current	--	17mA	20mA
	USB supply current	--	--	1A
Environment	Relative humidity	--	--	80%
	Working temperature	0°C	--	60°C
	Storage temperature	-10°C		70°C