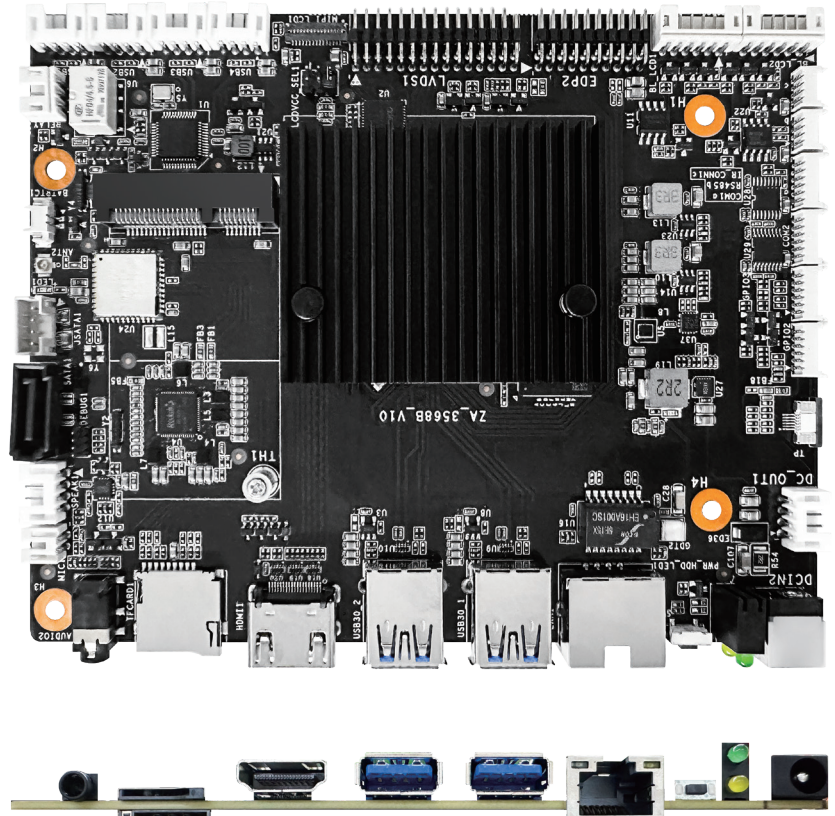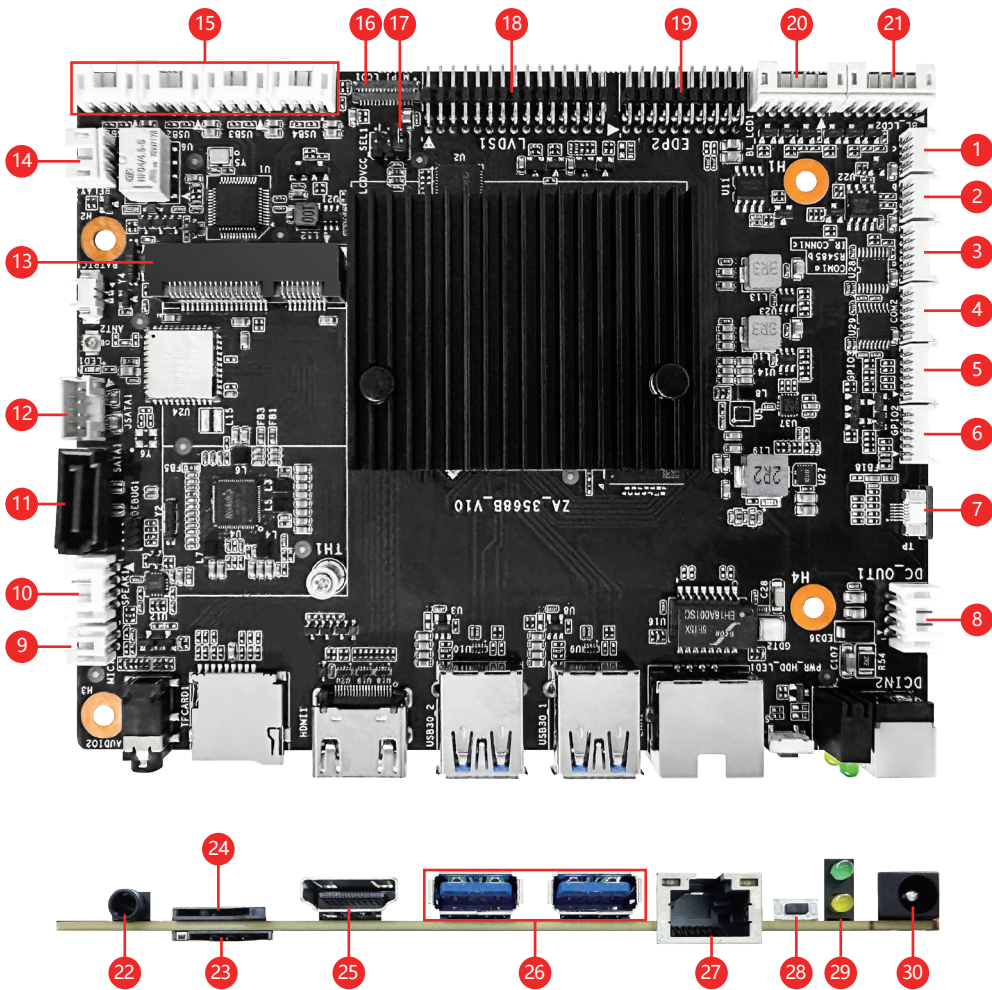# ZA-2568B_V10 Motherboard

Product characteristics:

- High-performance processing chip: integrates HDMI/LVDS/EDP/Ethernet/WIFI/BT in one. Easily handles various application scenarios.

- Multiple network transmissions: Ethernet, Wi-Fi, Bluetooth, 4G network.

- The maximum output resolution of LVDS TX can reach 1920*1200, and the maximum supported resolution of the EDP screen is 2560*1600.

- High scalability: 6*USB ports, 5*serial ports (2*RS232, 1 RS485, 2 UART), GPIO, MIC,SPEAKER, IR, relay, MIPI display, 1*100M network port, power output, etc.

- Supports Android system customization, provides system call interface API reference code, perfectly supports customer upper-layer application APP development.

- Eco-friendly green: industrial-grade EMI and ESD protection.

- Strict quality control: 7 days * 24 hours continuous aging tests, quality guarantee.

- Product applicable temperature: -10 ~ 65 °C

ZA-3568B_V10 Motherboard Specifications

Size	140mm*110mm
CPU	RK3568A, quad-core, maximum clock speed 2.0GHz
Main frequency	2.0 GHz
RAM	LPDDR4 label 2G (optional label 8G)
Built-in storage capacity	EMMC Label 32G
Display interface	The LVDS interface is single and double 8-bit, capable of directly driving 50/60Hz liquid crystal displays.
	Can directly drive LCD screens with various resolutions via eDP interface.
On-board backlight	Supports 3.3V/5V/12V selectable
Touch screen	Provides I2C interface (supports multi-point resistive touch, multi-point capacitive touch) Supports USB multi-point infrared touch, multi-point acoustic touch, multi-point optical touch.
LAN	1*RJ45 port, supporting 10/100M Ethernet.
	Equipped with Wi-Fi & BT modules, supports Wi-Fi 802.11b/g/n/ (ac optional) protocol. Supports BT4.2.
Lmage rotation	Supports manual rotation at 0 degrees, 90 degrees, 180 degrees, and 270 degrees (gravity sensing selection)
Other functions	Supports scheduled power on and off
Real-time clock	Built-in real-time clock power supply battery
Interface device	Supports USB camera
	6*USB HOSTS (of which 2 are USB 3.0), 1*USB OTG
	2*UARTs, 2*RS232 serial ports, and 1*RS485. Supports external serial device modules (NFC module, printer, card reader, etc.)
	TF card
	GPIO expansion, IR infrared interface
	Class D amplifier: 3W*8R, supports microphone
	HDMI 2.0 output
Power adapter	Input: AC100-240V, 50-60HZ, Output: DC12V 3A
Operating system	Android 11

1	IR_CONN Pin
2	RS485 Pin
3	COM1 Pin
4	COM2 Pin
5	GPIO3 Pin
6	GPIO2 Pin
7	TP interface
8	DC_OUT Pin
9	MIC Pin
10	SPEAKER Pin
11	SATA hardware interface
12	JSATA Power supply interface
13	Mini Pcie 4G Module slot
14	RELAY Pin
15	USB Pin(1-4)
16	MIPI_LCD interface
17	LCDVCC_SEL jumper
18	LVDS Pin
19	EDP Pin
20	BL_LCD1 Pin
21	BL_LCD2 Pin

22	AUDIO interface	27	LAN interface
23	SIM slot	28	SW Upgrade button
24	TF slot	29	PWR_HDD_LED Power light/Running light
25	HDMI interface	30	DC 12V interface
26	USB3.0 interface		