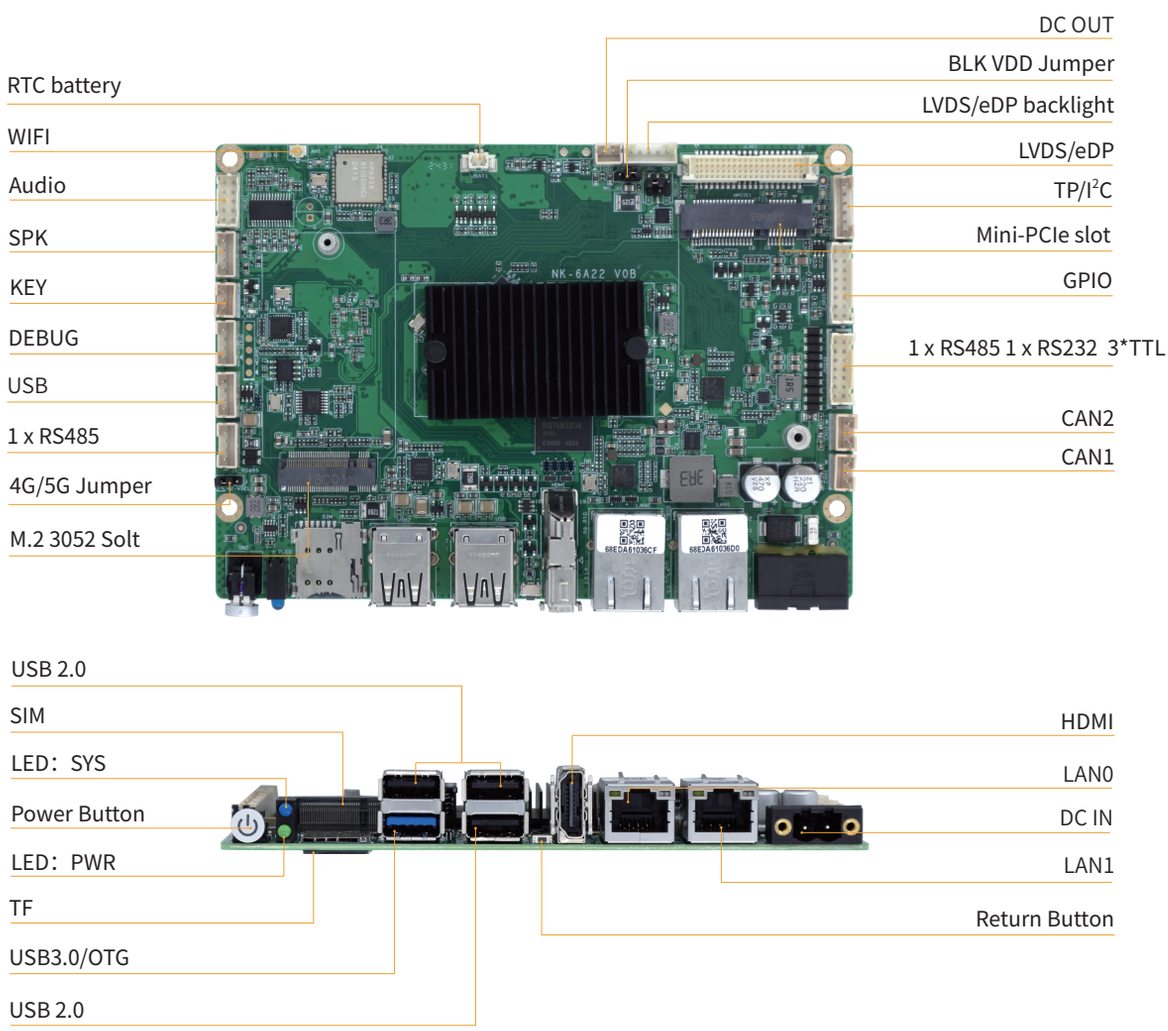
NK-6A22

Rockchip ARM Cortex-A55 RK3568 3.5" SBC

特点 Feature

- Rockchip RK3568 ARM Quad Cortex-A55 up to 2.0GHz
- Built-in NPU with processing performance of up to 1.0 TOPS
- Onboard 4/8GB LPDDR4 memory and 32/64GB eMMC
- Supports 1 x HDMI 2.0 4K, 1 x LVDS and 1 x eDP
- Provides 2 x GbE,1 x USB3.0(OTG),4 x USB2.0,5 x Serial（option),1 x TP/I^{2}C,2 x CAN,12 x GPIO,1 x MIPI-CSI,
- 1 x MINI-PCIE with USB 2.0 signal for LTE/ Wi-Fi 6 Modules or PCIE 2.1 signal for Dual LAN Card(Option),1 x M.2-B Key with USB 3.0 signal for 5G Modules
- Provides a 2.4G/5G dual-channel WiFi,Support bluetooth 5.0
- Supports Linux and Android OS

I/O Layout

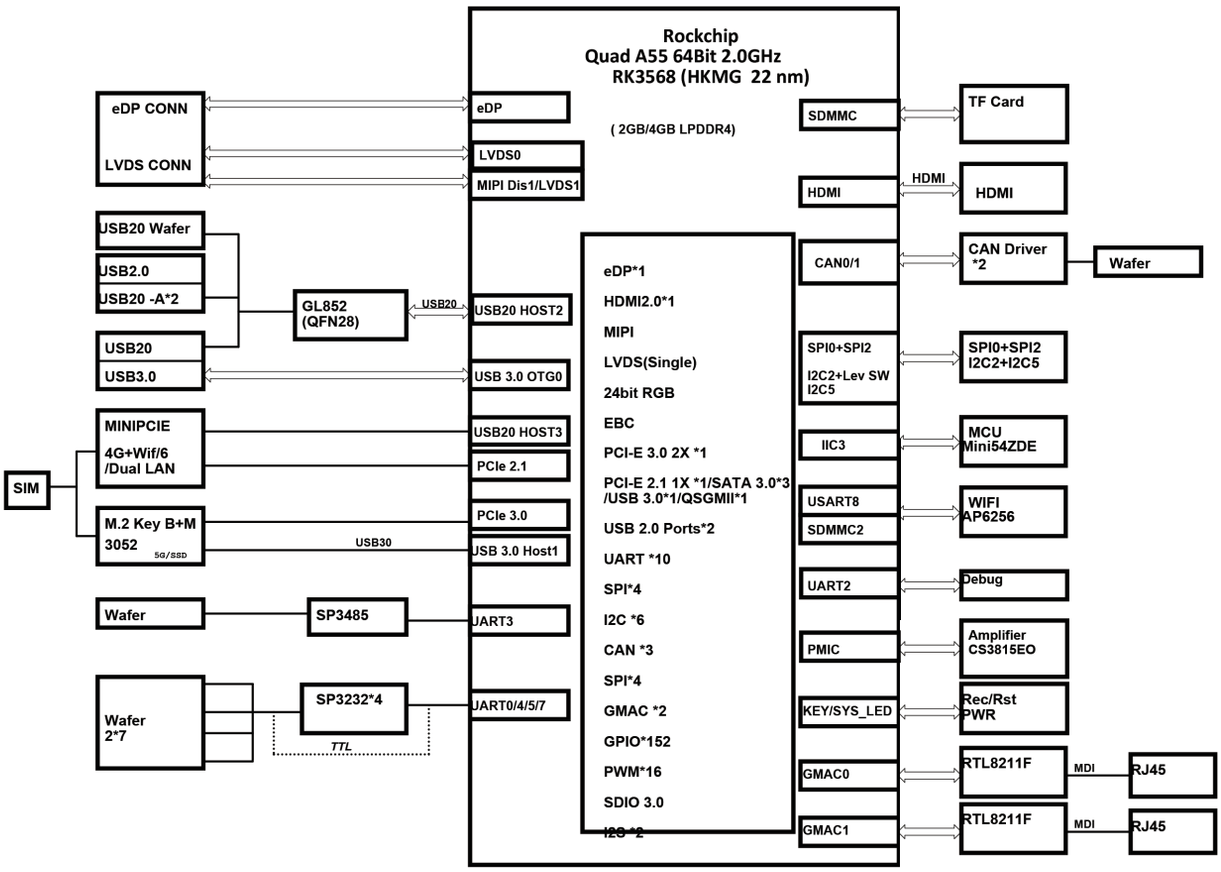


产品规格如有变更，恕不另行通知。All product specifications are subject without notice.

规格 Specification

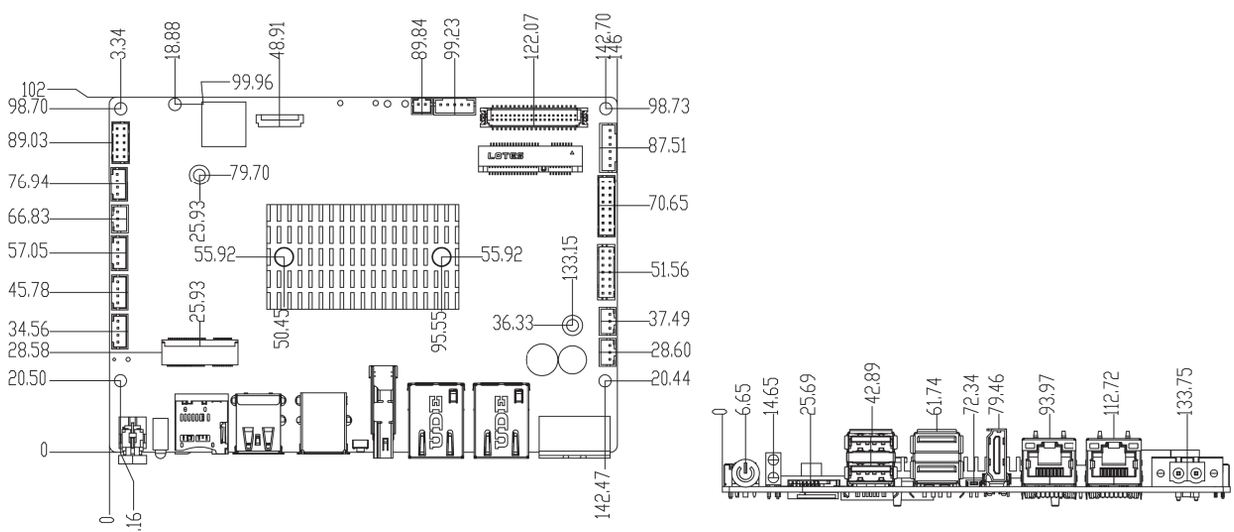
处理器 Processor System	CPU	Rockchip RK3568 ARM Quad Cortex-A55 up to 2.0GHz
	GPU	Mali-G52 support OpenGL ES 1.1/2.0/3.2, Vulkan 1.0/1.1, OpenCL 2.0
	NPS	Up to 1.0 Tops.Supports INT8/INT16 hybrid operation32
内存 Memory	Memory	Onboard 2/ 4/8GB LPDDR4
存储 Storage	eMMC	Onboard 32/64/128GB eMMC
	mSATA	1 x SATA3.0 port(Option)
	TF Socket	1 x TF card Socket,Support 128GB TF card
外部接口 Rear I/O	Display	1 x HDMI 2.0，upto 4096x2304@60Hz
	Ethernet	2 x GbE(RJ45),Realtek8211F controller
		1 x Onboard AP6256 IC，Support 2.4G/5G dual-channel WiFi,support WiFi 802.11b/g/n protocol，Support BT5.0
	USB	1 x USB3.0, OTG Colay,3 x USB2.0
	DC IN	12~24V power input, 1 x 2-pin lockable DC-IN phoenix terminal block
	Button	1 x Power Button, 1 x Return Button
	指示灯 Indicators	1 x System LED(Blue),1 x Power LED(Green)
内部接口 Internal I/O	显示 Display	1 x LVDS
		1 x eDP,upto 2560x1600@60Hz(share connector with LVDS)
	DEBUG	1 x DEBUG for debug
	KEY	1 x KEY ,Supports power on,reset,recovery
	串口 Serial Port	1 x RS485, 1 x RS232, 3 x TTL
	USB	1 x USB2.0 wafer(1*4pin)
	DC OUT	1 x DC 12V Power Out put
	TP/I^2C	1 x TP/I^2C
	CAN	2 x CAN
	GPIO	12 x GPIO
	音频 AUDIO	1 x Audio(Min-in/HeadPhone) and Speaker out via pin header
	MIPI_CSI	1 x MIPI_CSI,Support MIPI dual-channel camera
扩展接口 Expansion Slots	Mini-PCIe slot& SIM USI	1 x MINI-PCIE with USB 2.0 signal for LTE/ Wi-Fi 6 Modules or PCIE 2.1 signal for Dual LAN Card(Option)，1 x SIM card socket
	M.2 slot	1 x M.2 B Key with USB 3.0 signal for 5G Modules
电源 Power	Type	12~24V power input
	接口 Interface	1 x 2-pin phoenix terminal block
	功耗 Power Consumption	TBD
操作系统 O.S Support	OS	Android11,Debian11
机械参数 Mechanism	尺寸 Dimensions	146mmx102mm
	净重 Gross Weight	0.7Kg
环境 Environment	Operating	-20°C ~60°C
	Storage	-30°C ~80°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz，3Grms operating

框架图 Block Diagram



机构图 Mechanical Drawing

单位 (Unit): mm



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订购信息 Order Information

料号 Part No.	型号 Model	描述 Description
F83.6A2201.0B.NES	NK-6A22-432-N_V0A	ARM，RK3568，4G，32G eMMC，Standard，DC IN 12V~24V，2*LAN
F83.6A2202.0B.NES	NK-6A22-864-N_V0A	ARM，RK3568，8G，64G eMMC，Standard，DC IN 12V~24V，2*LAN

包装清单 Packing List

料号 Part No.	数量 Qty	描述 Description
User Manual	1	User Manual for NK-6A22
Terminal block	1	2-pin termianl block

可选配件 Optional Accessories

料号 Part No.	名称 Part Name	描述 Description
K75.004010.00.C26	Power Adapter	Power Adapter(侨威 KPL-040F-VI),2pin 凤凰端子 (台湾进联)， OUT:12V\3.3A，IN:220V，能效六
KE1.000015.00.Y10	Power Cord	AC Power cord (国标电源线)
KE1.000011.00.Y10	Power Cord	AC Power cord (欧标电源线)
F06.000030.00.NDJ	4G 套件	Mini-PCIe 模组,USB 总线，含 :4G 扩展卡,7 模全网通 EC20CEHDLG\ 内部馈线 L=150mm\ 外部吸盘天线 L=3M
F06.000031.00.NDJ	4G 套件	Mini-PCIe 模组,USB 总线，含 :4G 扩展卡,7 模全网通 EC20CEHDLG\ 内部馈线 L=150mm\ 外部船桨天线 L=17CM