

SOM-6531

ARM Architecture AI Core Board Based on RK1808



Product :

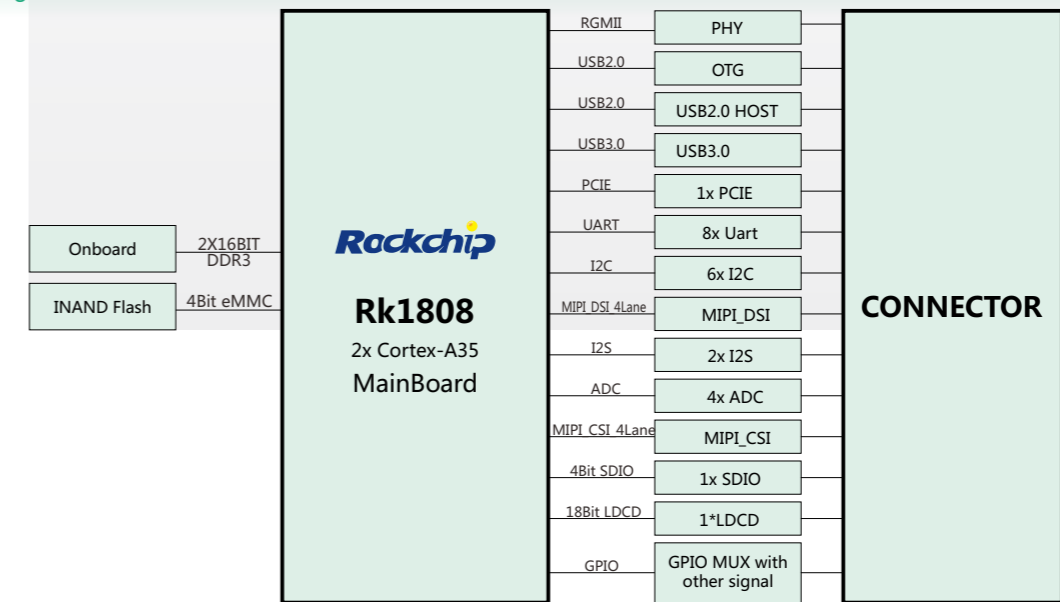
- ◆ Based on Rocchip 1808K dual core A35 processor
- ◆ On board 1G DDR3 memory , 8/16/32/64/128GB EMMC Flash
- ◆ Expand the function IO interface through 5x 2x 20Pin
- ◆ It can be flexibly matched with various functional module baseboards to meet the application needs of multiple industries
- ◆ Size : 70mmx 60mm



Specification :

Model		SOM-6531
Processor	CPU	Rockchip ARM platform RK1808K , dual core (Coretex-A35) 1.6GHz
	NPU	Integrated neural network unit, maximum frequency 800MHz
Memory	Capacity	On board 1GB/2GB , standard 1GB
	Technology	DDR3
	Flash	On board 8GB/16GB/32GB/64GB/128GB EMMC (option) , standard 16GB
Graphics	Mipi_DSI	Expandable through backplane : 1x 4lane Mipi_DSI port 1920*1080/60Hz
	LDCD	Expandable through backplane : 1x 18bit LDCD port , resolution support: 1280*800/60Hz
	Mipi_CSI Camera	Expandable through backplane : 1x 4lane Mipi_CSI Camera port , up to 2Gbps per lane on average
Ethernet	LAN	Expandable through backplane : 10/100/1000M network interface , MDI signal
	WIFI	Expandable through backplane : WIFI
Function	Audio	Expandable through backplane : 1x left and right channel audio interface , 1x mic ; 1x loudspeaker
	USB	Expandable through backplane : 1x USB3.0 port(multiplexing with PCIE) ; 1x USB2.0_OTG ; 1x USB2.0
	COM	Expandable through backplane : 8x UART port
I/O	GPIO	Expandable through backplane multichannel GPIO
	I2C	Expandable through backplane : 6x I2C port
	I2S	Expandable through backplane : 2x I2S
	ADC	Expandable through backplane : 4x ADC input
Expansion	PCIE	Expandable through backplane : 1xPCIE port (multiplexing with USB3.0) , support 5Gbps or 10Gbps
	SDIO	Expandable through backplane : SD portae port , support SD3.0
	SATA	N/A
WatchDog Timer	WatchDog Timer	Support
Power	Power Supply Voltage	+4.0V ~ +5.5V
	Power Type	DC IN
	Max Power Consumption	3W
Reliability	Operating Temperature	-20°C~70°C
	Storage Temperature	-40°C ~ 80°C
	Operating Humidity	5% ~ 95% RH, non-condensing
Mechanical	Dimensions(Wx D)	70mmx 60mm
Operation System	Supported OS	Linux

Structure Diagram :



Interfaces :



Ordering information :

Option	CPU	Memory	Flash	Display Port			LAN	COM	Expansion				WIFI	Bluetooth	P/N
				LVDS	HDMI	eDP			MINI PCIE	TF card slot	SIM card slot	SATA			
1	Rk1808	1GB	16GB	/	/	/	/	/	/	/	/	/	/	/	2.06.0653110009

Dimension :

