

2. Specification

Specification	
SOC	Rockchip RK3328
CPU	Quad-core ARM® Cortex-A53 64-bit processor, frequency up to 1.5GHz
GPU	ARM Mali-450 MP2 GPU Support OpenGL ES1.1/2.0, OpenVG1.1
VPU	Support 4K VP9 and 4K 10bits H265/H264 video decoding, up to 60fps 1080P multi-format video decoding (WMV, MPEG-1/2/4, VP9, H.264, H.265) 1080P video coding, support H.264/H.265 Video postprocessor: de-interlacing, denoising, edge / detail / color optimization
NPU	Computing power up to 2.8 TOPS , peak up to 5.6Tops , 9.3Tops/W ultra-high efficiency Support PLAI (PyTorch) and MDK (Caffe) model training tools Follow-up support TensorFlow Support Image Classification Model VGG-16(GNet1)、 GNet18 and Gnetfc Support Target Detection Model: SSD (Based on VGG)
RAM	DDR3 (1GB / 2GB / 4GB)
Storage	eMMC 5.1 (8GB/16GB/32GB/64GB/128GB) Support MLC NAND
Hardware Features	
Ethernet	10 / 100 /1000 MbpsEthernet interface (RJ45)
WiFi	Support 2.4GHz WiFi , 802.11a/b/g/n Support Bluetooth 4.2
Display	1 x HDMI 2.0, support 4K@60Hz output 1 x CVBS, in accordance with 480i, 576i standard
Audio	1 x HDMI , 1 × Phone for audio output
USB	USB 2.0 Host × 1、 USB 3.0 × 1、 USB_OTG × 1
Interface	Support GPIO (I2S , I2C , ADC)
Debug	Debug × 1
Power	DC input voltage 5V (Via Type-C)
OS / Software	
OS	Android, Linux+QT, Ubuntu
Appearance	
Size	Mini Size : 90 mm × 60 mm
PCB	6-layer board design

3. Interface Description

