



RK3568

High

A high-performance and low-power quad-core application processor



Features

CPU

Quad-core ARM Cortex-A55 processor

GPU

ARM G52-2EE

OpenGL ES 1.1/2.0/3.0/3.1/3.2, Vulkan 1.1

OpenCL 2.1

NPU

1TOPs@INT8

Support INT8/INT16/FP16/BFP16

Support deep learning frameworks:

TensorFlow, Caffe, Tflite, Pytorch, Onnx,

Android NN, etc

Memory

32bit DDR4/3/3L/LPDDR4/4X/3

DDR4 and DDR3 support ECC



Multiple display engine, max 3 screen support

HDMI2.0

eDP 1.3

Dual MIPI-DSI, combo with single LVDS

24bit RGB/BT1120

EBC interface

Multi-Media

4K H.265/H.264/VP9 video decoder

1080p@60fps H.264/H.265 video encoder

Video Input

8M Pixel ISP with HDR&3DNR

res. or 2.2 lanes MIPI CSI 1.4a2 and DVP

interface

Audio Interface

I2S0/I2S1 with 8 channels

I2S2/I2S3 with 2 channels

SPDIF0

PDMA with 8 channels

TDMA with 8 channels

VAD (Voice Activity Detection)

High S

Share three serial lanes

Dual USB 2.0 host

Dual RGMII interface

Security

ARM TrustZone, ARM VHE

Secure Video Path

Secure JTAG to debug

Secure boot

OTP

1) Crypto (AES/TDES/SM4/SM3/SHA256/SHA512 /RSA

Android 11 & 12

Device Information

EC6C6C36L8 EC6C6C36L8

Ball pitch: 0.65mm

