

QA 200 Development Board 4K MIPI *2

Model: 3000

Real-time video analytics



QA 200 development board is a development board for high-performance AI applications and robot vision applications. It integrates Hisilicon Hi3519A and Ascend 310 AI processors, supports two line 4K real-time video analysis, provides real-time video analysis ability for robot intelligence, improves the intelligent level of robot, facilitates users' rapid development and verification, and can be widely used in developer scheme verification, college education, scientific research and other scenes.

AI 人工智能

Embedded 嵌入式

Robot 机器人

Highly integration

Based on Huawei's Ascend 310AI processor, it integrates rich peripheral interfaces and the Mind Studio development environment, which is convenient for developers to access and develop quickly

Easy software environment

The Mind Studio has a good programming interface and graphical debugging capabilities. It can fully manage offline models and provide a simulation environment

Application scenarios



Developer scheme verification

Hardware design

Model validation



Higher education

Introduction to AI

Professional courses



intelligent robot



Service robot



AGV car



Multisensor sensing fusion

QA 200 Product specification

AI chip	Ascend 310 (Atlas200)
AI computing power	22TOPS INT8 16TOPS INT8
Memory specifications	LPDDR4X, 8GB, total band width 51.2GB/S
Encoding capability	• H.264 hardware decoding, 16-channel 1080p 30FPS (2-channel 3840*2160@60 FPS)
	• H.265 hardware decoding, 16-channel 1080p 30FPS (2-channel 3840*2160@60 FPS)
	• H.264 hardware encoding, 1-channel 1080p 30 FPS
	• H.265 hardware encoding, 1-channel 1080p 30 FPS
	• JPEG decoding: 1080p 256FPS; encoding: 1080p 64 FPS; maximum resolution: 8192*4320
	• PNG decoding: 1080p 24FPS; maximum resolution: 4096*2160
operating system	• Ubuntu 18.04.3
Interface chip	• Hi3519AV100
Interface	• 2 MIPI Sensor input: IPEX 20525-050E-02C
	• Internet: 1 GE RJ45
	• USB: 1 USB mirco 2.0
	• 4 UART: ATLAS200*2, Hi3519*2
	• 1 I2C
	• 1 MIC
	• 1 Fan socket
Memory	• 2 SD Card slot
Power	• 12 VDC, default configuration 12V/3A adapter
Power consumption	• Max 25W
Operating temperature	• -20℃ ~45℃
Dimension	• 100mm*75mm*25mm