# QA200EP
## Model：3000

QA200EP inference card, based on Ascend 310 AI processor, single card computing power up to 22TOPS INT8, support 12 channels of HIGH-definition video real-time analysis, using PCIE x4 standard interface, support Atlas Ascend200 EP mode.
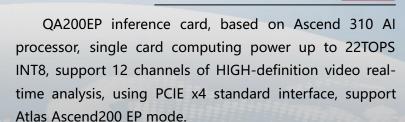
Adapt to X86, Kunpeng, Feiteng and other multi-brand CPUs, convenient

Rapid user deployment, can be widely used in smart education, scientific research, smart city, intelligent manufacturing, scientific research and other scenarios.

| AI 人工智能 | Robot 机器人 | Vision 视觉 |

## QA200EP Product specification

## Super computing power

The single card provides 22 TOPS INT8 computing power,supports 12-channel HIGH-definition video realtime analysis(1080p 25FPS), and provides more powerful support for edge inference

## Hardware encoding

Support JPEG and video hardware codec to improve the performance of image and video applications

## Low latency

Large memory capacity and high bandwidth to meet the memory requirements of feature matching scenarios and reduce application latency

## Application scenarios

Integrated in servers and industrial computers for AI inference

| smart city | Smart transportation | Smart community | Smart business hall |

| Smart manufacturing | Unmanned retail | Smart buildings | Smart Finance |

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|---|---|
| Morphology | Half height and half length PCIe card |
| AI chip | Ascend 310 |
| AI power | 22 TOPS INT8 |
| DDR | LPDDR4X 8 GB，bandwidth 50.2 GB/s |
| Encoding capability | •H.264 hardware decoding，16-channel 1080P 30 FPS（2-channel 3840*2160 60 FPS）<br>•H.265 hardware decoding，16-channel 1080P 30 FPS（2-channel 3840*2160 60FPS）<br>•H.264 hardware decoding，1-channel 1080P 30 FPS<br>•H.265 hardware decoding，1-channel 1080P 30 FPS<br>•JPEG decoding 1*1080P 256 FPS, decoding 1*1080P 64 FPS，maximum resolution：8192*4320<br>PNG decoding 4*1080P 48 FPS，maximum resolution：4096*2160 |

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|---|---|
| PCIe | PCIe x4  Gen3.0 |
| Power consumption | max22.5 W |
| Operating | -20℃～45℃ |
| Dimensions | 169.5 mm * 68.9 mm * 28 mm |

AI Every Where

QUANAI