

AI Accelerator Card SC7 FP300-I



The AI Accelerator Card SC7 FP300-I is a computing card for cloud AI applications. It can be used in application scenarios such as large language model inference. It can efficiently adapt to the main deep learning algorithms on the market and realize audio and video review, audio and video transcoding, AI applications such as structuring and behavioral analysis empower cities, transportation, energy, finance, telecommunications, industry and other fields with artificial intelligence

Strong Computing Power

- computing power 224 TOPS INT8
- computing power 112 TFLOPS FP16/BF16
- support INT8/FP16/BF16/FP32 mixed precision computing

Outstanding Codec Performance

- 256 channels 25fps video hardware decoding
- 96 channels 25fps video hardware coding
- Video and image decoding resolution up to 8K

Extensive Adaptation

- Adaptable to various servers
- Adaptable to different operating systems and mainstream algorithm frameworks

Product Specification

Application Scenarios



AIGC



Traffic



Power



Oil and Gas



City



Business Hall



Manufacturing



Storage

Product	SC7 FP300-I	
CPU	64 core A53 338560 DMIPS 2.3GHz	
Deep learning computing power	INT8	224 TOPS peak performance
	FP16/BF16	112 TFLOPS peak performance
	FP32	14 TFLOPS peak performance
Video/image Codec	Video Decoding	H.264 & H.265: 1080P @6400fps
	Resolution	8K / 4K / 1080P / 720P / D1 / CIF
	Video Encoding	H.264 & H.265: 1080P @2400fps
	Resolution	4K / 1080P / 720P / D1 / CIF
	Image Decoding / Encoding	JPEG: 3200 pictures/second @1080P (interleave off)
	Max. Resolution	32768 * 32768
Memory	Capacity / Type / Speed	128GB LPDDR4x 1024bit 470GB/s
PCIe	Data Link	PCIe Gen4 X16
Power Consumption	max	300W
	Range	0°C ~ 45°C
Temperature	Heat Dissipation	Passive
Size	Length * Height * Width	Full height full length Dual-Slot
Deep Learning Framework	TensorFlow / PyTorch / Paddle / Caffe / ONNX / MXNet / DarkNet	
Operation System Support	Ubuntu / CentOS / Debian / UOS / Kyli	
Main CPU Support	Compatible with Intel / AMD / Phytium / Highlight / SW / Loongson	