

# MACx

Unleash the surging power of computing and harness the value of intelligent computing

## Industry Scenarios

### **Versatile Architecture, Comprehensive Precision**

Designed with a general-purpose GPGPU architecture, it supports mainstream precision formats such as FP64, FP32, TF32, BF16, FP16, and INT8, delivering extreme computing power for demanding tasks like artificial intelligence and high-performance computing.

### **User-Friendly, Seamless Migration**

Equipped with a mature and comprehensive suite of development tools and software stack, it is compatible with mainstream GPGPU open-source ecosystems. It supports direct compilation and execution of users' existing C/C++/Python code, aiming for a "transparent migration" experience and enabling customers to maintain only a single codebase.

### **Open Ecosystem, Embracing Open Source**

Supports mainstream AI and AI for Science computing tools, including frameworks and third-party components such as PyTorch, TensorFlow, VLLM, JAX, PaddlePaddle, and OneFlow. It also provides open-source AI suite services through the fundamental AI software stack, OpenDAS.

### **Edge-Side Inference, Comprehensive Coverage**

Widely applied in computational tasks such as high-precision OCR & ASR, cost-effective scientific computing, and integrated appliances for hundred-billion-parameter large models. It empowers intelligent applications in government services, customer service, retail, healthcare, education, chemical engineering, and more.

## Product Specifications

Product Model		MACx
Performance Parameters	FP64	21 TFLOPS
	FP32	42 TFLOPS
	TF32	170 TFLOPS
	BF16	340 TFLOPS
	FP16	340 TFLOPS
	INT8	680 TOPS
Memory Specs	Memory Capacity	64GB HBM
	Memory Bandwidth	1.8TB/s
Video Codec	Video Decoding	90 streams H.264, VP9 80 streams H.265 110 streams AVS2 (1080p@30 FPS) 3300fps 1080P JPEG
	Video Encoding	10 streams H.264/H.265 (1080p@30 FPS) 720fps 1080P JPEG
Bus Type		PCIe 5.0*16
Hardware Form Factor		Full-Height, Full-Length, Dual-Width PCIe Card
Power TDP		Air-Cooled400W