



## MTT S50

MTT S50 adopts 12NM process, uses 2048 MUSA cores, single-precision computing power can reach up to 5TFlops, is equipped with 8GB video memory, supports H.264, H.265, AV1 multi-channel high-definition video codec, supports 4K ultra-high-definition display, and a wide range of The computing power of the AI model is accelerated. The MTT S50 adopts a turbo fan for active cooling and a standard PCIE single-slot design.

Moore Thread has launched a unified programming model, runtime library, driver and other software tools for the MTT S50 series products for the hardware architecture, which can facilitate developers to complete the application porting and adaptation, and fully utilize the hardware resources and computing power of the MTT S50. MTT S50 supports OpenGL, OpenGL ES, DirectX, Vulkan and other graphics APIs; supports audio and video processing ecology through FFMPEG and VA-API/DXVA;

and satisfies the program compatibility of AI and scientific computing through OpenCL and Vulkan.

Moore Thread MTT S50 is compatible with X86, ARM and other CPU architectures as well as process Linux, international Linux, Windows operating system distributions.



Specifications	
MUSA Number of cores	2048
FP32 Hash	5 TFLOPS
INT8 Hash	20 TOPS
Encode	1 MUSA Gen1 Encoder
Decode	1 MUSA Gen1 Dncoder
Memory Capacity	8 GB
Memory Bit Width	256 bit
Maximum Display Resolution	3840X2160
TDP	85W
Dimensions	L 251mm X H 111mm
Device	PCIE



Support for modern graphics rendering engines



Support AV1, H.264/H.265 and other encoding formats



Support AV1, H.264, H.265, VP9,

AVS2 and other decoding formats



Support Pytorch, TensorFlow, Paddle  
and other AI computing frameworks



Supports OpenCL 3.0 parallel computing



Support X86, ARM architecture CPU



Support Ubuntu, Kirin, Tongxin and other operating systems



PES control center integrates product information, software settings, drivers  
Graphical control center integrating upgrade and status monitoring

