



MTT S1000M

MTT S1000M adopts 12NM process, uses 1024 MUSA cores, single-precision computing power can reach up to 2TFlops, configures 32GB video memory, supports H.264, H.265, AV1 multi-channel high-definition video encoding, and multi-channel AV1, H.264, UHD video decoding in H.265, VP9, VP8, MPEG1/2/4, AVS2 and other formats, and can support up to 8K resolution. MTT S1000M is a half-height, half-length, single-slot PCIE card optimized for video scenarios. It adopts passive heat dissipation and consumes a maximum of 35W.

Moore Thread integrates Moore Thread's first-generation intelligent multimedia engine MT Smart Media Engine for MTT S1000M, which can accelerate various audio and video applications on the cloud and edge side, such as security intelligence, video conferencing, live VOD, cloud gaming, cloud desktop, etc. Supports the audio and video processing ecosystem by being compatible with the FFmpeg audio and video

framework and the VA-API application program interface, providing customers with the underlying GPU hardware encoding and decoding capabilities; supporting OpenGL, OpenGL ES, Vulkan and other graphics APIs; compatible with Pytorch, TensorFlow, PaddlePaddle and other artificial intelligence computing frameworks; through OpenCL to meet the program compatibility of AI and scientific computing.

Moore Thread MTT S1000M is compatible with X86, ARM and other CPU architectures and mainstream Linux operating system distributions.

Specifications	
Product Positioning	Ultra HD Video Transcoding Card
Application Scenarios	Video cloud, live broadcast, VOD, cloud game, cloud desktop
Audio And Video Framework	FFmpeg 4.4
API	VAAPI
Encoding Format	AV1, H.264, H.265
Decoding Format	AV1, H.264, H.265, VP9, VP8, AVS2, MPEG1/2/4 etc
Coding Performance	8x1080P@30fps
Decoding Performance	16x1080P@30fps
Codec Maximum Resolution	7680x4320
MUSA Number Of Cores	1024
FP32 Hash	2 TFLOPS
INT8 Hash	8 TOPS
Memory Capacity	4 GB
TDP	35W
Dimensions	L 158.5mm X H 80.2mm
Device	PCIE



Supports multiple audio and video frameworks and formats



Support for modern graphics rendering engines



Support a variety of artificial intelligence computing frameworks



Support OpenCL 3.0 parallel computing



Support X86, ARM architecture CPU



Support Ubuntu, Kirin, Tongxin and other operating systems



MT GMI status and performance monitoring