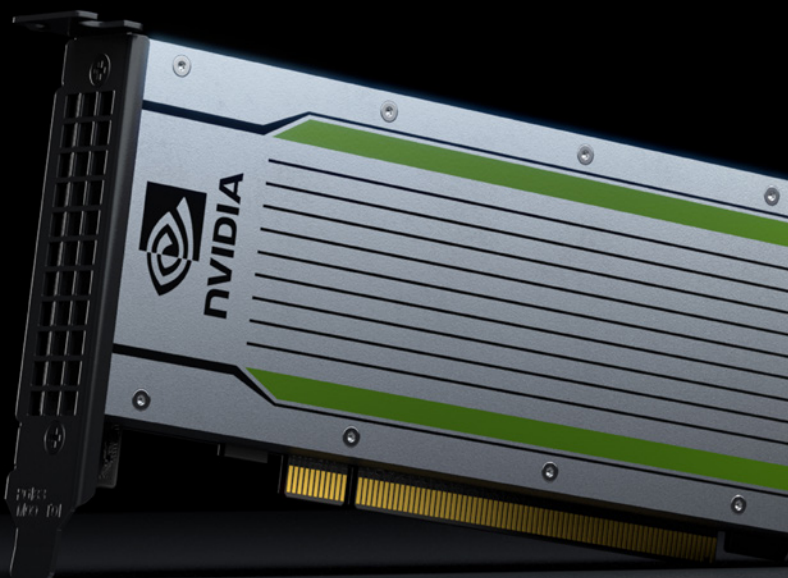




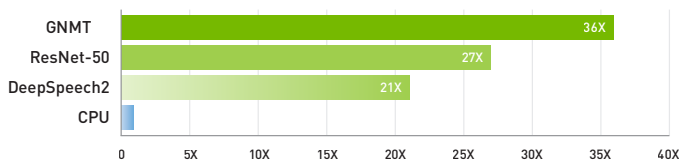
## NVIDIA T4 TENSOR CORE GPU



### Powering Scale-Out AI Training and Inference

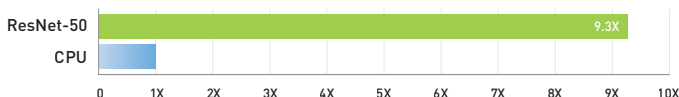
Supercharge any server with NVIDIA® T4 GPU, the world's most performant scale-out accelerator. Its low-profile, 70W design is powered by NVIDIA Turing™ Tensor Cores, delivering revolutionary multi-precision performance to accelerate a wide range of modern applications. This advanced GPU is packaged in an energy-efficient 70-watt, small PCIe form factor, optimized for scale-out servers and purpose-built to deliver state-of-the-art AI.

#### Inference Performance

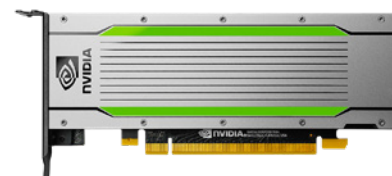


Comparisons made of one NVIDIA T4 GPU versus servers with dual-socket Xeon Gold 6140 CPU.

#### Training Performance



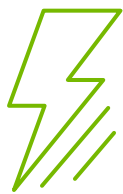
Comparison made of dual NVIDIA T4 GPUs versus servers with dual-socket Xeon Gold 6140 CPU.



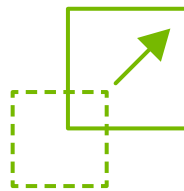
#### SPECIFICATIONS

GPU Architecture	NVIDIA Turing
NVIDIA Turing Tensor Cores	320
NVIDIA CUDA® Cores	2,560
Single-Precision	8.1 TFLOPS
Mixed-Precision (FP16/FP32)	65 TFLOPS
INT8	130 TOPS
INT4	260 TOPS
GPU Memory	16 GB GDDR6 300 GB/s
ECC	Yes
Interconnect Bandwidth	32 GB/sec
System Interface	x16 PCIe Gen3
Form Factor	Low-Profile PCIe
Thermal Solution	Passive
Compute APIs	CUDA, NVIDIA TensorRT™, ONNX

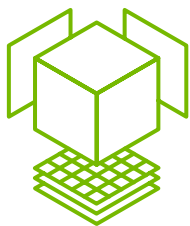
# Scale-Out Performance Driving Data Center Acceleration



**Small form factor 70-watt (W) design** makes T4 optimized for scale-out servers, providing an incredible 50X higher energy efficiency compared to CPUs, drastically reducing operational costs. In the last two years, NVIDIA's Inference Platform has increased efficiency by over 10X, and remains the most energy-efficient solution for distributed AI training and inference.



The **NVIDIA T4 data center GPU** is the ideal universal accelerator for distributed computing environments. Revolutionary multi-precision performance accelerates deep learning and machine learning training and inference, video transcoding, and virtual desktops. T4 supports all AI frameworks and network types, delivering dramatic performance and efficiency that maximize the utility of at-scale deployments.



**Turing Tensor Core technology** with multi-precision computing for AI powers breakthrough performance from FP32 to FP16 to INT8, as well as INT4 precisions. It delivers up to 9.3X higher performance than CPUs on training and up to 36X on inference.

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To learn more about the NVIDIA T4, visit [www.thinkmate.com/systems/servers/gpx/t4](http://www.thinkmate.com/systems/servers/gpx/t4)

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