NVIDIA GeForce GTX TITAN X 12GB

Maxwell | PCIe | 2015

OVERVIEW

6.6	12 GB	337 GB/s	250 W
FP32 TFLOPS	Memory GDDR5	Memory Bandwidth	TDP

PERFORMANCE METRICS

Precision	Peak (dense)	Bits	Type
FP64	–	—	Standard
FP32	6.6	32	Standard
TF32	–	—	Standard
BF16	–	—	Standard
FP16	Not supported	16	Standard
FP8	–	—	Standard
FP6	–	—	Standard
FP4	–	—	Standard
INT8	–	—	Standard

MEMORY SPECIFICATIONS

Capacity	12 GB
Type	GDDR5
Bandwidth	337 GB/s
Interface Width	384-bit

POWER & EFFICIENCY

TDP	250 W
Max power	250 W
FP32 dense TFLOPS per W of TDP	0.03 TFLOPS/W
FP16 dense TFLOPS per W of TDP	—

Per W of TDP figures divide dense peak by accelerator TDP. Board power only: excludes host CPUs, networking, cooling and facility overhead.

HARDWARE DETAILS

Vendor: NVIDIA
Architecture: Maxwell
Process Node: —
Form Factor: PCIe
Launch Year: 2015
Variant: 12GB

COMPUTE ENGINE

CUDA Cores: 3,072
SMs: 24
Base Clock: 1.00 GHz

Boost Clock: 1.07 GHz

INTERCONNECT

PCIe: 3.0 x16

CHIP DESIGN

Transistors: 8.0 billion

ENTERPRISE FEATURES

ECC: No

Sparsity: No