

NVIDIA QUADRO
AUTHORIZED PARTNER

PNY



NVIDIA QUADRO GP100

The World's most advanced professional graphics solution ever created – combines the highest levels of compute and visualization performance

HOW TO QUALIFY A POTENTIAL QUADRO GP100 CUSTOMER

ASK 3 BASIC QUESTIONS

I NEED SOME INFORMATION FIRST – JUST THE BASIC FACTS...

WHAT TYPE OF HIGH PERFORMANCE PLATFORM DO YOU HAVE?

Do they use high performance workstations or rackmount GPUs to handle compute and data-intensive workloads? Are they looking for a new system or an upgrade to an existing system?

WHAT HIGH-PERFORMANCE APPLICATION ARE YOU RUNNING? IS IT A MISSION CRITICAL APPLICATION?

If it is a professional application like CAE then you have a potential NVIDIA Quadro GP100 customer.

WHAT HIGH PERFORMANCE PROBLEM ARE YOU TRYING TO SOLVE?

Do they need a faster and higher performance graphics board aimed at solving engineering problems? Then you have a potential GP100 customer.

SEND THE ANSWERS TO THESE QUESTIONS TO GOPNY@PNY.COM AND WE WILL LET YOU KNOW IF YOU HAVE A POTENTIAL CUSTOMER.

ADDITIONAL QUESTIONS: IF YOUR CUSTOMER ANSWERS YES TO ANY OF THE QUESTIONS BELOW, THEY ARE A POTENTIAL GP100 CUSTOMER

DO YOU CURRENTLY USE EITHER TESLA K40C OR QUADRO K6000?

DO YOU USE YOUR SYSTEM TO RUN CAE APPLICATIONS?

DO YOU RUN SCIENTIFIC RESEARCH APPLICATIONS?

DO YOU NEED HARDWARE ACCELERATED DOUBLE PRECISION FLOATING POINT (FP64)?

WOULD YOU LIKE HIGH COMPUTE AND GRAPHICS PERFORMANCE ON A SINGLE BOARD?

ARE YOU INTERESTED IN DEEP LEARNING DEVELOPMENT?

TO LEARN ABOUT THE FEATURES AND BENEFITS OF THE GP100 COMPARED TO THE TESLA K40C OR THE K6000, **FLIP OVER THE PAGE** AND CHECK OUT THE TABLE.

HAVE QUESTIONS ON THE NEW NVIDIA QUADRO GP100?

CONTACT YOUR **PNY ACCOUNT MANAGER** OR E-MAIL: GOPNY@PNY.COM

NVIDIA QUADRO GP100

FEATURES & BENEFITS RELATIVE TO TESLA K40C AND K6000

	TESLA K40C	QUADRO K6000	QUADRO GP100	BENEFIT
GPU ARCHITECTURE	KEPLER (GEN -2)	KEPLER (GEN -2)	PASCAL	NVIDIA'S LATEST GPU ARCHITECTURE
CUDA CORES	2880	2880	3584	FASTER RENDERING AND COMPUTE PERFORMANCE
FP64 PERFORMANCE	1.7 TFLOPS	1.7 TFLOPS	5.2 TFLOPS	206% GREATER FP64 COMPUTE PERFORMANCE
FP32 PERFORMANCE	4.29 TFLOPS	4.29 TFLOPS	10.3 TFLOPS	140% BETTER FP32 COMPUTE PERFORMANCE
FP16 PERFORMANCE	NONE	NONE	20.7 TFLOPS	REQUIRED FOR DEEP LEARNING (AI)
INT8 PERFORMANCE	NONE	NONE	47 TOPS	OPTIMIZES NEURAL NETWORK (AI) INFERENCE
MEMORY SIZE	12 GB GDDR5 ECC	12 GB GDDR5 ECC	16 GB HBM2 ECC	NEXT GENERATION MEMORY TECHNOLOGY
ECC MEMORY OVERHEAD	6.25% (11.25 GB AVAILABLE)	6.25% (11.25 GB AVAILABLE)	NONE, 16 GB AVAILABLE	NO ECC CAPACITY OR PERFORMANCE HIT
MEMORY BUS WIDTH	384-BIT	384-BIT	4096-BIT	RADICALLY ADVANCED MEMORY BUS IMPLEMENTATION
PEAK MEMORY BANDWIDTH	288 GB/S	288 GB/S	717 GB/S	MOVE DATA TO AND FROM 149% GPU FASTER
DISPLAY SUPPORT	NONE	2X DP 1.2 + 2X DVI DL	4X DP 1.4 + 1X DVI-D DL	SUPPORTS FOUR 5K OR MULTIPLE 8K DISPLAYS
HDR IMAGE SUPPORT	NO	NO	YES	MORE LIFELIKE IMAGES
VR READY	NO	NO	YES	PERFORMANCE AND FEATURES TO DRIVE VR EXPERIENCES
BOARD POWER	225 W	225 W	235 W	MUCH HIGHER PERFORMANCE AT SIMILAR POWER
AUXILIARY POWER CONNECTOR	2X 6-PIN PCIE	2X 6-PIN PCIE	8-PIN PCIE	SIMPLIFIED POWER SUPPLY CONNECTIVITY
FORM FACTOR	4.376" H X 10.5" L DUAL SLOT	4.376" H X 10.5" L DUAL SLOT	4.4" H X 10.5" L DUAL SLOT	NO SIGNIFICANT MECHANICAL CHANGES

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