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## NVIDIA DIGITS 5

Developer Solutions Now Available



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### DIGITS 5 Developer Solutions

Koi Computers' NVIDIA DIGITS™ 5 Developer Solutions puts the power of deep learning into the hands of engineers and data scientists easily and quickly. Configured with the latest NVIDIA deep learning technologies and the latest Deep Learning GPU Training System (DIGITS), data scientists can focus on designing and training networks right away.



Image Segmentation example from the PASCAL VOC dataset

#### What's New in DIGITS 5?

- Train Image Segmentation neural networks to partition images into regions such as tumors from healthy tissue, and buildings and cars from free space
- Decrease training time and improve model accuracy by starting with pre-trained models such as AlexNet, GoogLeNet, and others from the DIGITS Model Store

#### Key Features:

- Design, train, and visualize deep neural networks for image classification, segmentation, and object detection
- Download pre-trained models from the DIGITS Model Store
- Perform hyperparameter sweep of learning rate and batch size for model accuracy
- Schedule, monitor, and manage neural network training jobs, and analyze accuracy and loss in real time
- Import a wide variety of image formats and sources
- Scale training jobs across multiple GPUs automatically

#### > What is Deep Learning?

Deep learning is a part of machine learning that uses deep neural networks (DNNs) and large datasets to teach computers to detect recognizable concepts in data, to translate or understand natural languages, interpret information from input data, and more.

Examples of deep learning being used in the research community include vehicle, pedestrian and landmark identification for driver assistance, image recognition, speech recognition, natural language processing, neural machine translation, and mitosis detection.

#### > What is NVIDIA DIGITS?

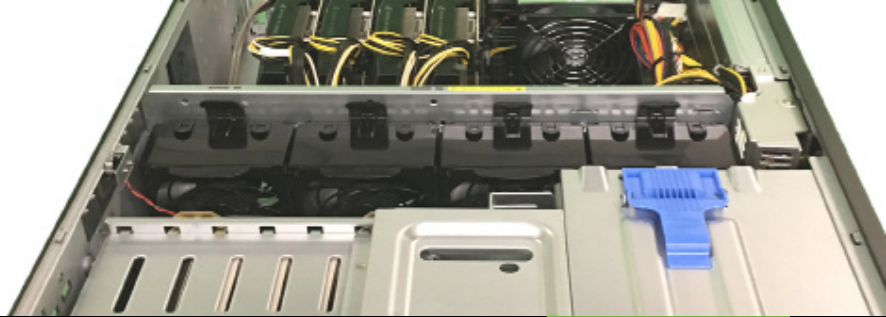
DIGITS simplifies common deep learning tasks such as managing data, designing and training neural networks on multi-GPU systems, monitoring performance in real time with advanced visualizations, and selecting the best performing model from the results browser for deployment.

The system is completely interactive so that data scientists can focus on designing and training networks rather than programming and debugging.

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	DIGITS 5 Developer Desktop	DIGITS 5 Developer Workstation		
Model #:	AI-4340-GTX   TITAN X	AI-4340 GP100   P100		
Form Factor:	Tower/4U Rackmount Convertible	Tower/4U Rackmount Convertible		
Power:	1620W Redundant Power Supplies, Platinum Level	2000W Redundant Power Supplies, Titanium Level		
Processors:	Single Intel® Xeon® Processor E5-2697 v4 (18 Cores, 45M Cache, 2.30GHz, 145W TDP)	Dual Intel® Xeon® Processor E5-2697 v4 (18 Cores, 45M Cache, 2.30GHz, 145W TDP)		
Memory:	4 x 32GB DDR4-2400 ECC LRDIMM	8 x 32GB DDR4-2400 ECC LRDIMM		
Chipset:	Intel® C612	Intel® C612		
Storage (OS):	1 x 240GB 2.5" SATA Internal SSD	1 x 240GB 2.5" SATA Internal SSD		
Storage (Cache for RAID):	1 x 512GB 8Gb/s M.2 2280 PCI-E NVMe Solid State Drive	1 x 512GB 8Gb/s M.2 2280 PCI-E NVMe Solid State Drive		
Storage:	3 x 4TB 6Gb/s 128MB Cache 3.5" HDD (Software RAID 5)	3 x 4TB 6Gb/s 128MB Cache 3.5" HDD (Software RAID 5)		
Software:	Ubuntu 14.04, NVIDIA DIGITS 5 - Featuring Image Segmentation and DIGITS Model Store, NVIDIA® CUDA® Toolkit 8 with NVIDIA Pascal™ Architecture Support, NVIDIA CUDA Deep Neural Network library (cuDNN) 5.1, Frameworks: Caffe, TensorFlow, Theano, Torch, and BIDMach			
Configure with:	<b>One GTX 1080</b> Price Starting at: <b>\$8,000.00</b>	<b>One TITAN X</b> Price Starting at: <b>\$8,450.00</b>	<b>One Quadro GP100</b> Price Starting at: <b>\$16,000.00</b>	<b>One NVIDIA Tesla P100</b> Price Starting at: <b>\$18,500.00</b>

## About Koi Computers, Inc.

Koi Computers builds High Performance Computing (HPC) and Storage solutions that handle the parallel processing of massive data to solve complex research problems for government, healthcare research and higher education. Contact us to custom configure your solutions today.

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Contract No.: NNG15SD50B  
Group A Full and Open-NAICS 33411



GSA IT Schedule 70  
Contract No.: GS-35F-0488U



Contract No.: HHSN316201500039W  
Business Category: 8(a), EDWOSB, SB, WOSB