E4 COMPUTER ENGINEERING

# DEEP LEARNING SOLUTIONS BY E4

## STEERING HUMAN CAPABILITIES OVER AND BEYOND

### HIGHLIGHTS

- Custom configurations from 1 to 8 GPUs
- Deep learning frameworks included
- Neural framework stored via Docker
- NVLink for fast communication GPU-CPU, GPU-GPU
- Thirdy Party Development (Image Classification, Object Detection, Finance Analysis, Recommendation Engines, Energy Optimization, Predictive Maintenance)

### OVERVIEW

Deep Learning is the fastest growing discipline in the field of artificial intelligence (AI).

AI is everywhere: internet & cloud, medicine & biology, media & entertainment, security & defence, just to name a few.

From energy optimization to automotive, from pattern recognition, to healthcare, many companies are currently using deep learning in their respective industries to find solutions to problems that, only a couple of years ago, were considered unsolvable.

E4 delivers a wide range of Deep Learning solutions, from customizable and flexible solutions specially packaged according to customer requirements, to solutions based on POWER architecture, to top of the range appliances equipped with many GPUs and integrated interconnect, to exploit AI and maximize whatever processes your company is involved in.

## WHAT SOLUTION ARE YOU LOOKING FOR?

Our solutions for Deep Learning derive from a specific analysis of requirements of the markets we provide for. Our range includes contained solutions for development and benchmarks, more complex systems devoted to data set analysis and advanced appliances that address and solve the most challenging problems.

IBM Silver Business Partner

| | Flexible solution by E4 | IBM Power AI Solution |
|---|---|---|
| Purpose | Flexible Deep Learning solution for test, development, benchmarks, production | Includes the most popular machine learning frameworks, and it is built for easy and rapid deployment |
| AI Software | Base Libraries | Deep Learning frameworks |
| NVLink | GPU – GPU | GPU - GPU, GPU - CPU |
| GPU | From 1 to 8 NVIDIA® GPUs | Up to 4 or 6 NVIDIA® Tesla® V100 |
| CPU | 2 x Intel® Xeon® Processors | 2 x IBM POWER9™ Processors |

NVIDIA ELITE PARTNER

| | NVIDIA DGX-2 | NVIDIA DGX-1 | NVIDIA DGX STATION |
|---|---|---|---|
| Purpose | Deep learning solution fully integrated with hardware, software and development tools to run accelerated analytics applications | Deep Learning solution fully integrated with hardware, software and development tools to run accelerated analytics applications | Personal Supercomputer for AI in a fully integrated workstation format with hardware, software and development tools to quickly launch AI projects |
| AI Software | NV Docker, Deep Learning Frameworks, Monitoring software | NV Docker, Deep Learning Frameworks, Monitoring software | NV Docker, Deep Learning Frameworks, Monitoring software |
| NVLink | GPU – GPU | GPU – GPU | GPU – GPU |
| GPU | 16 NVIDIA® Tesla® V100 | 8 NVIDIA® Tesla® V100 | 8 NVIDIA® Tesla® V100 |
| CPU | 2 x Intel® Xeon® Processors | 2 x Intel® Xeon® Processors | 2 x Intel® Xeon® Processors |