DESIGN GATEWAY



Turnkey Accelerator System

Design Gateway's Turnkey Accelerator Systems is Workstations and Servers built and validated to deliver unparalleled performance for AI inference, Networking, Video coding and Accelerated Big Data Computing.





Al Inference & Computing Workstations

TKAS-D2101: Professional Workstations paired with Xilinx's Alveo accelerator card provides unique advantage feature for re-programmed and adaptive accelerator application to meet constantly changing needs of modern data center, providing capability of accelerating workload without changing hardware. The systems built for quiet performance, reliability, and ready to use out of the box by preinstalled with Xilinx ML Suite for implementing Al & ML software (TensorFlow, Caffe, MxNet) to run on Alveo Card.

- Machine learning inference
- Video transcoding
- Database search & analytics
- Computational Storage

TKAS-D2101 Specification

Intel Gen 11th Core i7 Rocket Lake-S Processor with

Deep Learning Boost AI acceleration and AVX-512 instruction set DDR4 3200MHz Memory up to 128GB

Supports up to 1 x double slot Xilinx Alveo Accelerator card

- Standard model: Alveo U50
- Changeable to U25, U30, U200, U250 and U280 as an option PCle Gen4 support

Total support 3 x M.2 slots and 5 x SATA ports

Tower Case with Thermaltake CPU Cooling Systems

Pre-installed and ready to use

- Ubuntu 20.04 LTS Server
- Xilinx Machine Learning Suite
- Xilinx's Vitis Al Docker container

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TKAS-S2101: 2U Rack server has been tested and validated across intensive workloads to deliver high levels of performance for large scale deep learning training and high-performance computing (HPC) with Dual NVIDIA's A100 Tensor Core GPU and 3rd Gen. Intel's Xeon Processors. Enabling data scientists, researchers, and engineers to accelerate their pace of innovation on wide range of Intelligent applications, solving challenges that previously thought impossible.

- Large Scale Deep Learning Training
- Up to 312 TFLOPS TensorFloat-32 per GPU
- Support large scale models and data sets
- Suitable for building AI infrastructure

TKAS- 2101 Specification

Dual 2nd Generation Intel® Xeon Processor with

Deep Learning Boost AI acceleration and AVX-512 instruction set 24 x DDR4 DIMM Slot up to 3TB

Supports up to 2 x double slot NVIDIA A100(80GB) Cards

8 x PCle Gen3 expansion slots

Total support up to 14 x SATA ports

Dual 1200W 80 PLUS Platinum redundant power supply

2U Rack Server with NVIDIA validated platform

Pre-installed and ready to use upon request





Alveo U50

