

Liquid Cooled TRITON® HPC Server for Immersion Technology

ASA TRITON® SERVER

World's first high-density multi-GPU server engineered for immersion-cooling

ASA's Triton is the first high-density server built specifically for immersion-cooling. It is not just a bare-bone design with fans removed. Starting with the meticulous engineering of its chassis, the fact it's manufactured in the USA, and the high-end componentry - CPU, Memory, NVME SSD, GPUs.

ASA's Triton server is a custom designed, custom manufactured, ultra-dense computing machine in a single 1U node. Often associated with other high-density servers and the excessive heat they generate, the Triton server is designed specifically for single-phase immersion-cooling. The operating temperatures are regulated within a specific range allowing for components and the overall system to perform at optimal conditions.

Use Cases:

- Immersion-Cooling Technology
- High Frequency Trading
- Artificial Intelligence
- High-Performance Computing (HPC)
- Blockchain Technology
- Edge Computing

ASA Computers is a recognized leader in server products with solutions for Enterprise systems, Storage, HPC, Machine Learning and Artificial Intelligence. ASA has been manufacturing server equipment in the Silicon Valley for over three decades. Triton is ASA's initial offering of servers for immersion-cooling.

Overview

The Liquid Cooled TRITON® HPC Server for Immersion Technology includes a preinstalled Adaptive Computing software bundle that executes HPC, AI, ML, and GPU optimized workloads on-premise or in the cloud. The Adaptive Computing software bundle includes everything needed to run compute intensive workloads. The software bundle also includes the On-Demand Data Center with built-in accessibility to every major cloud provider.

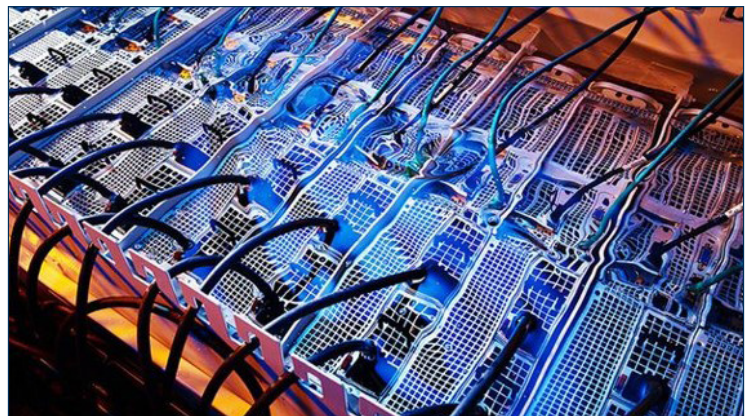
Adaptive Computing Software Bundle Includes:

Moab: HPC Workload and Orchestration Platform

Viewpoint: Job Submission Portal

On-Demand Data Center: Intelligent Cloud Systems Management

- HPC hardware technology.
- Cloud Bursting Enabled: Preconfigured accessibility to cloud service providers.
- AI, Machine Learning, GPU optimized workloads, simulations, DNA sequencing, traditional HPC workloads.
- High-density double wide (6) GPU server in 1U form factor.
- Triton is designed specifically for Immersion Fluid Cooling Technology.
- V-Tank (tank scalable): From four (4) Triton server tank (24 GPU) to forty two (42) Triton server tank (252 GPU).
- Solves data center space constraints.
- Lower OpEx.
- Fast deployment in weeks vs. months for brick and mortar data center build out.
- No raised floors.
- No centralized AC required.



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Portable HPC Capability



- Cloud Bursting Enabled
- Built-in access to Google Cloud, AWS, Azure, Oracle Cloud and Open Telekom Cloud

ASA TRITON® Server (1U X 6GPU)

ASA's Triton is the first high-density server built specifically for immersion-cooling. This fluid is an odorless, non-toxic, single-phase coolant that is both electrically and chemically inert. It also ensures maximum performance and material compatibility, enabling ASA's Triton server to run efficiently and reliably, featuring.

- More GPUs in a single node
- Significantly faster processing time



Liquid Immersion Cooling Engineered Fluids' SLICTanks®

Engineered Fluids' SLICTanks represent the most advanced designed single-phase, liquid immersion cooling tanks available today. The SLICTank Generation 4 design is the culmination of over 3 years and \$500K in computational flow analysis to develop the optimal shape, flow, and design for increasing hash rate performance through the best fluid flow management and heat transfer performance!

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