

High-end Compute Power,

Parallel CPU Processing and GPU Offloading



Company Profile

Airscope is an asset visualization company that focuses on developing industrial brownfield assets from their physical dimensions into an interactive environment. The company uses multiple capture techniques to create high-resolution digital twins, which help form a 3D canvas for accessing all company asset data via its Airscope Visualize Software as a Service (SaaS).

Airscope uniquely operates drones to capture information with photogrammetry to form a holistic digital model of entire assets, they process the visual and geospatial data to manage quality and present an accessible photorealistic digital twin. We have been in a positive relationship with Airscope for over 3 years, with reoccurring services and solutions being implemented. With the technology they are utilizing, Airscope looked into developing a modern and custom GPU-optimized tower server to withstand their significant computing demands. We took into consideration their company use case, technical compatibility and hardware challenges to design and create a solution that best fits their flexibility, scalability and budgetary requirements.

Challenges

Airscope was seeking a high-end solution to fulfil the high computing requirements for their imaging software. The main initial issue for the company was their inadequate, slow data-processing workstation systems, which they wished to fully upgrade. Due to the fact that their services require high quality data modelling, which demands high-performance rendering, processing and storage.

Scalability and flexibility were also Airscope's main priorities. Most competitor's systems lock in clients, which limits scalability and flexibility, as hardware from different brands are not compatible with their servers.



Solutions

Airscope is a niche company that looks to invest in a holistic solution that meets its growing data-driven workloads. With our clarity of the use case, we were able to focus on optimizing the major components of their solution through parallel CPU processing, GPU offloading and high performance storage.

We strive to consistently assemble high quality IT solutions that best fit a company's use case without any sacrifice in standards. At DiGiCOR, we pride ourselves on our high level of quality control, suitability, and competitive pricing, in our service of creating an optimal solution that best fits Airscope.



Building Our Solution



DiGiCOR ST83-DS228-MND10GOR

To meet Airscope's requirements, we offered a high-end computing system which offers:

- **Dual Intel Xeon Gold 6154 18-core** - Parallel CPU Processing
- **GPU Tower Server** - GPU Offloading
- **Intel SSD D3 S4510 Series** - High Performance Storage



Outcome

It is very important for us to understand our client's specific use cases for the solutions we are providing. This allows us to collaborate on custom-tailored and highly flexible infrastructure, which has nurtured our long-term relationship with Airscope as their priority choice for IT solutions. With our expert team, we were able to fortify the solution that they initially came to Digicor with, optimizing their configuration with features that are most important.

The main priority Airscope had was computing power as their software requires Big Data processing. We provided them with a long-term and high-end solution that replaced their inadequate systems, which were inefficient and slow in processing data, to add value to their work environment and data-driven workloads as a custom and highly scalable solution.

As a result, we share a great relationship with Airscope due to the high quality and reliable solutions, as well as our focus on delivering high-level customer support and service through our expert technicians and internal team.

Outcome



More efficient and productive work environment.



Ability to scale the systems as a long-term solution.



High performance computing in a tower system.