

Converged Compute, Storage, and GPU Power FabricXpress[®] and SQream DB

Massive Data Access and Analysis

Selected Use Cases

Retail

Drive sales with better customer overlap analysis, through deeper historical trends. Calculate ACV across all segments and stores faster than ever before.

Customer-driven analytics

Correlate between customers and geolocation, purchase history and others to improve personalization.

Finance

Fraud, surveillance, risk, supply chain and trading analytics benefit from more accurate results with more data.

Telecommunications

Drive revenue by collecting and analyzing CDRs and IPCDRs in one smart database. Analyze network behavior, network performance, customer trends and mobility.

Cybersecurity

Continuously monitor incoming logging data, and detect anomalies as they happen. Alert and respond to anomalous events before they cause damage.

IoT / M2M

Monitor consumption in utilities, perform anomaly detection, and improve your network behavior. Respond to maintenance events before they cause damage.

- **Unparalleled compute and storage bandwidth**
- **Up to 1PB and up to 2 NVIDIA Tesla GPUs, in a single 2U platform**
- **High performance with linear scalability**

FabricXpress with GPUs

The FabricXpress, FX-MicroDataCenter, is designed for extreme data processing requirements, where the speed of the answer is the key for generating value and insight. With the modular nature of its NVMe/PCIe architecture, FX-MicroDataCenter can be easily enhanced with additional capabilities for data processing. By adding NVIDIA Tesla P100 GPUs, a single FX-MicroDataCenter system processes data at teraflop speeds and gigabytes per second.



SQream DB

SQream DB is a SQL-based GPU database for huge data sets. Built from scratch, SQream DB harnesses the unique performance of graphical processors (GPUs) for handling hundreds of terabytes and trillions of rows.

SQream DB gives fast insights on very large data sets, especially with large, complex, multi-table join queries. Join huge fact tables with ease, without worrying about primary keys and pre-indexing.

Harness the power of GPU acceleration using Axellio's Edge Computing MicroDataCenter with NVIDIA GPUs and SQream DB. Ingest and analyze more data than ever before, often revealing business intelligence that was previously unattainable.



The FabricXpress Advantage

- Remove bandwidth bottlenecks[®]
- Eliminate latency issues
- Assure privacy
- Enable autonomy
- Deployable/Affordable/Secure



The SQream DB Advantage

- Performance at scale
- Increased productivity
- More insights from more data
- Significant cost savings
- Operational efficiency
- Simplified administration

Powered by



Up to 2.5 x Faster – With Incredible Density

SQream DB's efficient design, coupled with the FX-MicroDataCenter, offer tremendous value, with the lowest price-per-TB for any database and unmatched performance.

- Queries run **up to 2.5x faster on FX-MicroDataCenter** compared to other flash-based hardware solutions.
- SQream DB and Axellio can push data from storage to the GPU at up to **3.2GB/s per GPU** – more than double the peak performance measured with other solutions.

With up to 1PB in a 2U solution, and incredible throughput, SQream DB and FX-MicroDataCenter offer a converged, high-performance database appliance that has plenty of headroom to handle current quantities, and grow with your data.

Focus on Data, Not Maintenance

Leading enterprises use SQream DB with BI tools like Tableau, to make informed decisions about critical business aspects. SQream DB lets business users ask more questions about more data, without cutting down, pre-aggregating or forcing DBAs to remodel the database.

Query trillions of rows of data and get results faster than ever before. Uncover the hidden insights in your data by visually interacting with it in tools like Tableau, Qlik, Spotfire, or write your own visualizations in Python. Expand your query windows from weeks to years to find trends.

GPU Power for Data Exploration

With FabricXpress' converged compute, storage and GPU, SQream DB is exceptionally well suited for data discovery, exploration and data science, due to its flexible architecture. Fast discovery and exploration of data, through reduced query latency over large data sets allows you and your employees to be more productive and generate valuable insight quicker.

Collect Data from All Sources

Ingest data from any relational source into SQream DB. SQream's patented GPU technology and algorithms pre-process the data as it is ingested, jump-starting performance and providing near instant responses for data science and BI interactions.

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