Axellio™
Edge Computing System

Defining Performance and Resiliency at the Edge...

Quick look...

Extraordinary Value
Lower size, weight and power with incredible life cycle cost savings

Infinitely Flexible
Six modular slots for any mix of Flash Storage, CPU, or GPU. Easily upgrade, expand, or reconfigure

Unprecedented Density
Converged compute, storage and memory in a 2u format with up to 88 CPU cores, 460 TB* storage, 2 TB RAM
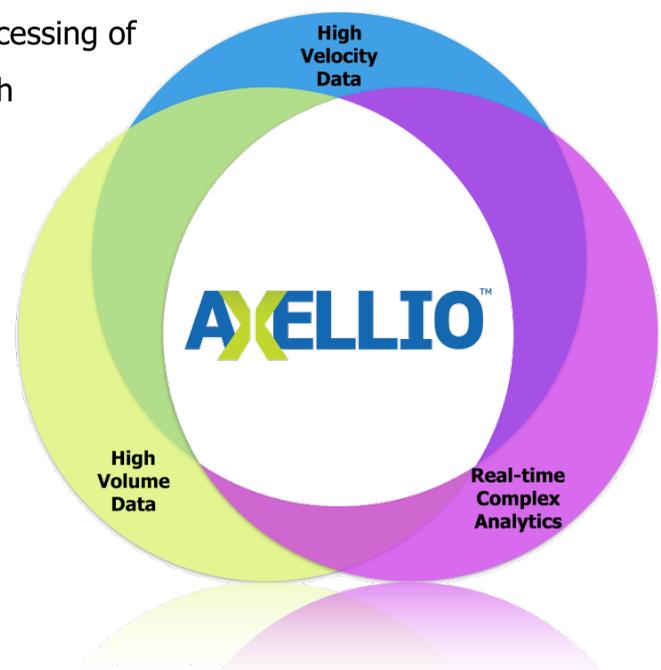
Lightning Fast
FabricXpress™ architecture dramatically accelerates throughput, compute and storage capabilities.

Axellio™ Edge Computing System

Axellio edge-computing system delivers real-time performance for complex analytics on high-volume, high-velocity, streaming data. The unique combination of performance, density, and cost enables the next generation of capabilities for cyber security, financial market data, defense and intelligence, operations and Internet of Things (IoT).

Axellio is designed for the emerging edge computing market, which is defined by high-bandwidth, low-latency, and high density. Axellio is a high-density, converged server/storage platform that leverages a unique NVMe FabricXpress™ architecture to provide unequaled, sustained throughput and end-to-end low-latency response necessary to meet the most demanding edge requirements.

The Axellio edge-computing platform enables real time insight and response from complex processing of high volumes of data at high velocities. This level of performance will enable next generation applications where large amounts of sensor-based data inputs must be processed to provide real-time insight and response.
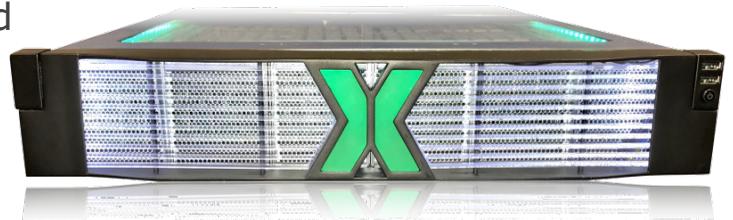

High Velocity Data

High Volume Data

AXELLIO™

Real-time Complex Analytics

Axellio™
Edge Computing System

Converged Server and Storage Appliance

Axellio brings the promise of NVMe to reality, including the first true fulfillment of unequaled sustained throughput and end-to-end low latency response. This is all achieved using dual-ported NVMe SSDs, dual-controller design, and an integrated PCIe fabric.

X-IO's Axellio is an advanced compute/storage architecture incorporating 2 dual CPU servers with up to 88 cores and up to 2TB of RAM, tightly coupled with up to 72 x 2.5" NVMe SSDs – all in a 2U form factor.

Technical Specifications

Configuration Options	Each system includes two server modules, specifications listed are per appliance			
Compute**	CPU: 4 x Intel E5-2620v4 32 cores/64 threads @ 2.1GHz	CPU: 4 x Intel E5-2650v4 48 cores/96 threads @ 2.2GHz	CPU: 4 x Intel E5-2667v4 32 cores/64 threads @ 3.2GHz	CPU: 4 x Intel E5-2699v4 88 cores/176 threads @ 2.2GHz
Memory	32GB to 2TB RAM			
Network Connections	4x10 GbE or 4x40 GbE or 4x100 GbE			
Storage Capability	1– 6 FlashPacs Each FlashPac holds up to 12 Dual Ported NVMe SSDs (800, 1600, 3200 or 6400 GB)* Total capacity: 9.6TB – 460TB* I/O performance capacity: Over 60GB/s transfer rate, 12M+IOPS, fully populated Storage Capability, share between server modules			
Form Factor	2U (H 3.5" x W 17.25" x L 36.5")			
System Cooling	7x60mm dual stage counter rotating heavy duty fans with PWM fan speed controls			
Power Supplies	80 PLUS TITANIUM Grade Dual Redundant Power Supplies @100-120v: Dual 1100W Out @100-120V, 15A + Dual 1000W Out @100-120V, 10.5-12.5A, 50-60Hz @230-240v: Dual 1500W Out @230-240V, 11A, + Dual 2000W Out @230-240V, 9.8-10.0A,50-60Hz			

* Increased capacity supported as higher capacity SSDs become available
** Shown are example CPU configurations. Axellio supports the full line of the Intel® XEON® processor E5-26xx V4 family