ScaleStreams-
High Density Storage Servers

At a time when the digitization of data is ever so critical for business applications, Premio continues to deliver innovative storage solutions that solve the many industry challenges for managing and delivering data effortlessly.

In today's world, Cloud Computing is growing faster than ever. Our digital world demands faster computing, larger storage and greater flexibility. To keep up with the ever growing data storage, the Scalestreams line of High-Density Servers delivers a solution that improves the power-efficiency while increasing the density of the computing power. These systems provide both savings in rack space and weight without sacrificing performance. Scalestreams features a design that provides maximum flexibility and customizability. Each model features a hot-swappable design that makes maintenance easy and simple while reducing downtime. As you plan for future growth, Scalestreams is able to expand for your future capacity and processing needs. Each server product provides the latest in computing technology for all of your memory intensive business data. Featuring the latest in Intel Xeon Processors, your data is secure, reliable, and scalable. Premio High Density Servers are the perfect enterprise solution for data driven companies who desire the highest density computing to maximize their server space. No matter how fast data processing and management evolves, Scalestreams will help your team stay ahead of the trend.

KEY APPLICATIONS:

Public and Private Cloud	Software Defined Storage	Cold Storage	Web 2.0	Compliance Archive

KEY PREMIO BENEFITS:

HIGH DENSITY STORAGE

ScaleStreams servers are designed with the purpose to maximize utilization of rack mount space. By considering the finite amount of space within data centers, ScaleStreams uses every bit of space by maximizing the amount of drives per U space starting from 48 bays. ScaleStreams is able to reach from 48 bays to 96 bays in a 4U space, thus lowering the total cost of ownership (TCO) by pushing the amount of storage each server can hold.

12Gb/S SAS3 TECHNOLOGY

ScaleStreams is designed with the latest generation of SAS technology and achieves 12Gb/s for each port. It also supports end-to-end 12Gb/s storage devices such as HDD/SSD through 12G SAS expanders, 12G SAS HBAs, and RAID controllers. ScaleStreams can also support 36-port 12G SAS expanders by providing dual ported SAS to enable redundancy for shared-storage devices.

PATENTED TOOL-LESS AND TRAY-LESS

ScaleStreams provides a tool-less and tray-less design that allows for superior ease of maintenance and serviceability on faulty drives. This innovative feature allows system integrator technicians, IT administrators, and Service Technicians the ability to save on installation and service times, which ultimately helps with lowering the overall total cost of ownership (TCO).

BALANCE ARCHITECTURE

The ScaleStreams family is designed around a balanced architecture. Each product is carefully designed to ensure that there is no waste of storage resources. ScaleStreams is designed from the ground up to ensure the maximum total throughput and to equally balance the I/O from the storage to the network without any traffic bottlenecks.

COMPLETE LINE OF STORAGE OPTIONS ALSO AVAILABLE :

Flash Storage Servers- FlacheStreams
High Availability Servers- DuraStreams
General Purpose Servers- OmniStreams
High Density Servers- ScaleStreams
High Performance Computing Servers- GridStreams

AMD EPYC EMPOWERS SINGLE SOCKET SERVERS

As IT / enterprise infrastructures expand and begin virtualizing their data into the cloud, data centers are faced with the challenges of managing complex customer workloads and being hyper-efficient with every IT dollar spent. Especially for many data-intensive applications today, a key value for data management is the ability to evaluate and architect solutions that deliver both a balance of high performance compute and also scalable memory bandwidth through its I/O's.

In addition, as hardware innovations continue to give way to better and more optimized platforms, AMD's EPYC processors competitively situates itself in the needs of existing and emerging data center workloads. With industry leading Core Counts, scalable Memory Bandwidth, and unprecedented I/O's, AMD's EPYC sets a new standard for performance, scalability, and balance for the modern datacenter.

For enterprise applications, scientific research models, big data clusters, cloud computing, software-defined storage, machine learning, and the digital business transformation, AMD EPYC delivers:

- Up to 32 high-performance "Zen" cores
- Eight DDR4 channels per CPU
- Up to 2TB RAM per CPU
- 128 PCIe lanes
- Dedicated security subsystem
- Integrated chipset
- Socket-compatible with next-gen EPYC processors

ScaleStreams	ScaleStreams eDrawer4048S-UN	ScaleStreams eDrawer4060S-UN
AMD EPYC	4U 48 BAYS 3.5" 12G SAS AMD SINGLE EPYC 1200W HRP	4U 60 BAYS 3.5" 12G SAS AMD DUAL EPYC 1200W HRP
Ordering P/N	BB44833UNGB18-A	BB46033UNSM18-A
CPU	1x AMD EPYC	2x AMD EPYC
Memory	16x DDR4 slots (Max 2TB)	16x DDR4 slots (Max 2TB)
Drive Bays	48x3.5" 12G SAS/SATA (Hot-Swap) 2x2.5" (internal) Rear 4x 2.5" 7mm (Hot-Swap)	60x3.5" 12G SAS/SATA (Hot-Swap) 2xM.2 (internal)
Storage Expander	12Gb/s Expander	12Gb/s Expander
Onboard Network	2x10GbE	2xGbE (Optional: 2x10GbT)
Expansion Slots	4x Gen3x16 (FH) 3x Gen3x8 (FH)	2x Gen3x16 (FH) 3x Gen3x8 (FH)
IPMI	✓	✓