



OmniStreams - The Most Versatile Servers

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

When you need a server that provides both all-around performance and flexibility to scale with your business, the OmniStreams server line delivers a solution that is able to keep pace with the changing demands of your business. Taking a hybrid approach, this line blends a patented tool-less design for easy access and service with product customization to fit a specific business need. OmniStreams servers are hot-swappable to maintain 24/7 runtime and leave you with peace of mind. The OmniStreams design features the latest x86 chipset platforms and a 12Gbit SAS3 interface, which allow for easy deployment in your IT environment. If capacity and form factor are of concern, OmniStreams supports multiple form factors ranging from a 1U 4-drive bay to an even larger density 4U 24-drive bay model – providing the ability to scale your storage solution to a quarter of a Petabyte (1000 Terabytes). Additionally, the OmniStreams server line is versatile in offering models ranging from single processor to the latest dual processors platforms to support the most demanding workloads.

KEY APPLICATIONS:

			
Private Cloud	Media & Entertainment	Security Surveillance	General Purpose Server

KEY ECHOSTREAMS BENEFITS:

12Gb/S SAS3 TECHNOLOGY

OmniStreams 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. OmniStreams can also support 36 physical 12G SAS expanders by providing dual ported SAS to enable redundancy for shared-storage devices.

PATENTED TOOL-LESS AND TRAY-LESS

OmniStreams 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).

HIGH EFFICIENCY POWER SUPPLIES

In order to help achieve efficient power management, DuraStreams servers are designed with 92% power-efficient redundant power supplies. All the models in the DuraStreams family are also certified with 80 Plus Platinum Power Supplies with an additional feature such as PMBUS 1.2 for better management monitoring and control.

FLEXIBLE AND COST EFFECTIVE STORAGE SERVER

OmniStreams servers are extremely flexible to help support the latest generation of x86 platforms. OmniStreams servers can support entry-level single processor ATX motherboards as well as high-end dual processor ATX motherboards.

COMPLETE LINE OF STORAGE OPTIONS ALSO AVAILABLE :



Server & Storage Product Briefs:

- Flash Storage Server- FlacheStreams
- High Availability Servers- DuraStreams
- General Purpose Servers- OmniStreams
- High Density Servers- ScaleStreams








INTEL® EMPOWERING TRANSFORMATION IN A DIGITAL WORLD

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.

Intel competitively situates itself in the needs of existing and emerging data center workloads. The Intel® Xeon® Scalable processor provides the foundation for a powerful data center platform that creates an evolutionary leap in agility and scalability.

Disruptive by design, this innovative processor sets a new level of platform convergence and capabilities across compute, storage, memory, network, and security. Enterprises, cloud, and communications service providers can now drive forward their most ambitious digital initiatives with a feature-rich, highly versatile platform that includes:

- Up to 28 high-performance cores, six memory channels, and 48 lanes of PCIe* 3.0
- Intel Advanced Vector Extensions 512
- Integrated Intel Omni-Path Architecture Host Fabric Interface
- Support for Intel® Optane™ SSDs and Intel® 3D NAND SSDs
- Up to three Intel UPI channels
- Enhanced Intel® Run Sure Technology

OmniStreams	OmniStreams OSS1A4-D5	OmniStreams OSS224-D5	OmniStreams OSS212L-D5	OmniStreams OSS212F-D5	OmniStreams OSS316-D5	OmniStreams OSS424-D5
	1U 4 BAYS 2.5" 12G SAS INTEL DP SKYLAKE SP 500W HRP 	2U 24BAYS 2.5" 12G SAS INTEL DP SKYLAKE SP 800W HRP 	2U 12BAYS 3.5" 12G SAS INTEL DP SKYLAKE SP 800W HRP 	2U 12BAYS 3.5" 12G SAS INTEL DP SKYLAKE SP 800W HRP 	3U 16BAYS 3.5" 12G SAS INTEL DP SKYLAKE SP 800W HRP 	4U 24BAYS 3.5" 12G SAS INTEL DP SKYLAKE SP 800W HRP 
Ordering P/N	BB1042FD5TY14-A	BB22432D5TY16-A	BB21233D5TY16-A	BB21233D5TY26-A	BB31633D5TY16-A	BB42433D5TY16-A
CPU	2x Intel Xeon SP	2x Intel Xeon SP	2x Intel Xeon SP	2x Intel Xeon SP	2x Intel Xeon SP	2x Intel Xeon SP
Memory	16x DDR4 slots (Max 2TB)	12x DDR4 slots (Max 1.5TB)	12x DDR4 slots (Max 1.5TB)	16x DDR4 slots (Max 2TB)	12x DDR4 slots (Max 1.5TB)	12x DDR4 slots (Max 1.5TB)
Drive Bays	Front 4x2.5" 7mm SAS/SATA SSD (Hot-Swap) 2x2.5" 7mm (internal)	2x2.5" (internal) & 24x 2.5" 15mm (Hot-Swap) Rear 2x2.5" 7mm Hot-Swap (Optional)	2x2.5" (internal) Rear 2x2.5" 7mm Hot-Swap (Optional) 12x3.5" SAS/SATA (Hot-Swap)	2x2.5" (internal) Rear 2x2.5" 7mm Hot-Swap (Optional) 12x3.5" SAS/SATA (Hot-Swap)	2x2.5" (internal) Rear 2, 4, 6, or 8x2.5" 7mm Hot-Swap (Optional) 16x3.5" SAS/SATA (Hot-Swap)	2x2.5" (internal) Rear 2, 8, or 10x2.5" 7mm Hot-Swap (Optional) 24x3.5" SAS/SATA (Hot-Swap)
Storage Expander	N/A	12Gb/s Expander	12Gb/s Expander (Optional: non-expander)	12Gb/s Expander (Optional: non-expander)	12Gb/s Expander	12Gb/s Expander
Onboard Network	2xGbE, 1xOCP2.0 x16 Mezz.	2xGbE	2xGbE	2xGbE, 1xOCP2.0 x16 Mezz.	2xGbE	2xGbE
Expansion Slots	2x Gen3x16 (FH), 1x OCP2.0 x16 Storage mezz.	2x Gen3x16 (LP) 5x Gen3x8 (LP)	2x Gen3x16 (LP) 5x Gen3x8 (LP)	6x Gen3x8 (FH), 1x OCP2.0 x16 Storage mezz.	2x Gen3x16 (LP) 5x Gen3x8 (LP)	2x Gen3x16 (LP) 5x Gen3x8 (LP)
IPMI	✓	✓	✓	✓	✓	✓