

Liquid Composable Intel® Optane™ Technology

Liquid Command Center™
Software Enables
Composable Intel® Optane™
SSDs as Direct-Connected
PCIe Resource



LIQID
COMMAND
CENTER™

Liquid with
Pool of Intel®
Optane™ SSDs

Compute

Liquid delivers improved resource management and utilization with software-defined bare metal composability for Intel® Optane™ SSD based solutions. Composable Intel Optane Technology combines the unparalleled high throughput, low latency, quality of service (QoS) and endurance of Intel Optane SSDs with Liquid’s industry-leading PCIe fabrics to provide composability with scaling of capacity and bandwidth. Achieving DRAM-like data speeds, Intel Optane SSDs are allocated directly across PCIe as bare metal resources. Liquid’s software driven ultra-low-latency platform simplifies the deployment and dynamic resource orchestration of Intel Optane technology based solutions.

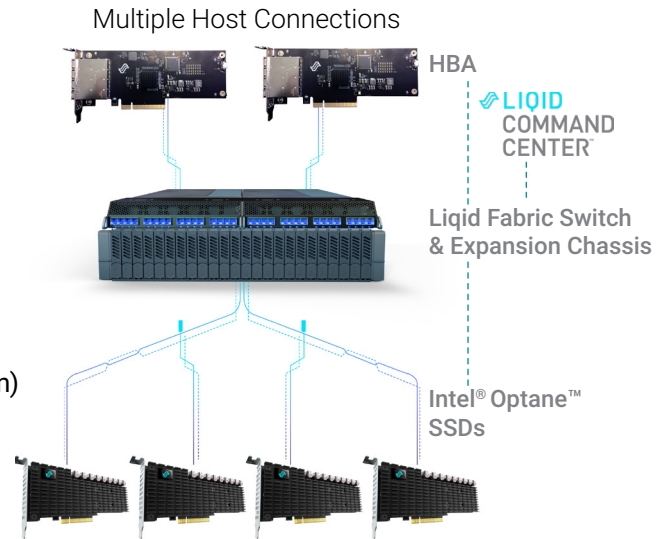
Liquid’s intelligent PCIe fabric and Command Center orchestration software enables solutions with increased capacity and bandwidth by providing scaling and pooling of Intel Optane SSD resources to supercharge the

most demanding data centric applications. The Liquid composable solutions also supports Intel® Memory Drive Technology software that enables Intel Optane SSDs to appear as system memory. Intel® Memory Drive Technology integrates Intel Optane SSDs into the memory subsystem and makes it appear like DRAM to the OS and applications, as a fully transparent memory solution, with no changes to the OS or application layers required.

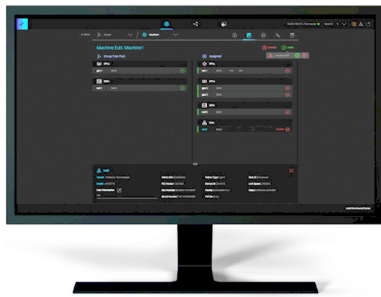
With the improved resource management and utilization of composability, IT users can integrate Intel Optane SSDs with FPGAs, CPUs, GPUs, NICs, and additional solid-state storage into server systems dynamically. Intel Optane technology on Liquid fabrics expands the promise of composable infrastructure, allowing IT users to create and maintain a more efficient data center environment to meet the crushing data performance requirements of today’s AI-driven compute environments and emerging high value applications.

Liquid Composable with Intel® Optane™ Technology

| | |
|-------------------|---|
| Architecture | Intel Optane SSD Pool Connected Over PCIe |
| Capacity Count | Up to 36 TB per 2U Expansion Chassis |
| Scalability | Up to 100 Chassis with External PCIe Fabric |
| Host Interconnect | PCIe Gen3 (x16, x8, or x4 options) |
| Host Connections | Up to 8 Host per Chassis (8x4 or 4x8 or 2x16) |
| Max Host Count | 100s Hosts with External PCIe Fabric Switch |
| Total Bandwidth | ~50 GB/s – Full Duplex (per Chassis) |
| Software | Intel® Memory Drive Technology (Optional Support enabled for DRAM Emulation) |
| Cabling to Host | Standard MiniSAS HD Cabling |
| Management SW | Liquid Command Center™ |
| Fail Over | HA Optional Support |
| Power | 700W (per Chassis) |
| Cooling | 4x 35mm High Performance Fans |



Composable Bundle LQD8330 Intel® Optane™ SSD JBox



Contents of the Solutions Bundle include:

| Device | Quantity | Description |
|-----------|----------|---|
| Software | 1pcs | Liquid Command Center Management SW |
| Fabric | 1pcs | Liquid Grid - PCIe Gen3 Fabric Switch |
| HBA | 8pcs | Liquid PCIe Host Bus Adapters |
| Expansion | 1pcs | PCIe Expansion Chassis |
| SSD | 24pcs | Liquid SSD with Intel® Optane™ Technology |

*All cables included

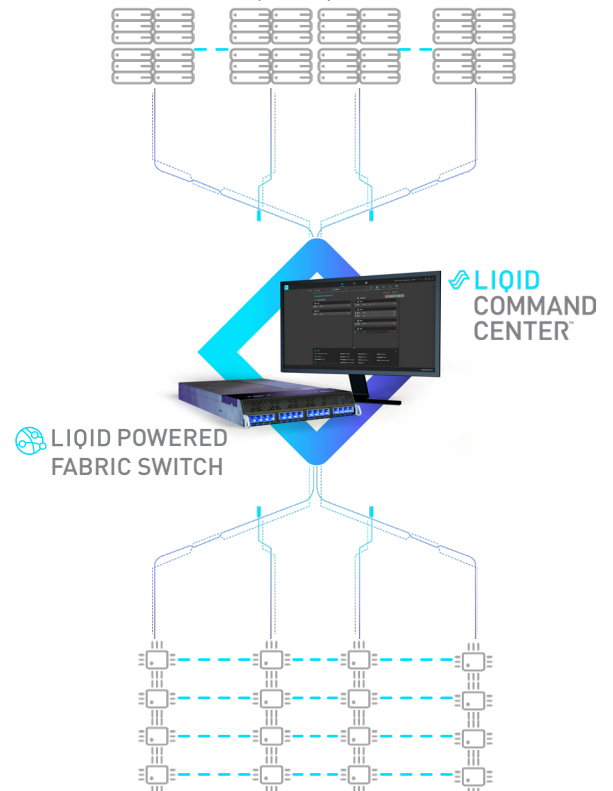
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Expanded Topology

Intel® Optane™ Technology
in PCIe Multiple Expansion Chassis



Up to 100's of Host Connected Over PCIe Gen3