Liqid Composable

Intel® Optane™ Technology

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

Liqid 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 Liqid’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. Liqid’s software driven ultra-low-latency platform simplifies the deployment and dynamic resource orchestration of Intel Optane technology based solutions.

Liqid’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 Liqid 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 Liqid 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.
Liqid 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: 100’s 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: Liqid 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:

1x Liqid Command Center Software
1x PCIe Fabric Switch
8x PCIe Host Bus Adapters
1x PCIe Expansion Chassis
24x Liqid SSD with Intel® Optane™ Technology
*All cables included

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