

# FOR IMMEDIATE RELEASE

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## QUANTUM3D ANNOUNCES LIBERTYATX DEPLOYABLE HIGH-PERFORMANCE COMPUTING SYSTEM

***LibertyATX Deployable HPC System Selected by Lawrence Livermore National Laboratory for GPGPU-Based Sensor Processing for Next-Generation Prototype Airborne Sensor System***

**SAN JOSE, CA—October 29, 2007—Quantum3D<sup>®</sup>, Inc.**, a leading provider of Commercial-off-the-Shelf (COTS), open-architecture, realtime visual and special-purpose computing products and solutions, today announced the availability of a new COTS, Deployable, [High Performance Computing](#) (DHPC) system, Quantum3D LibertyATX™.

LibertyATX is a ruggedized, industrial, rack-mount system equipped with multiple NVIDIA<sup>®</sup> Quadro<sup>®</sup> FX GPUs, Intel Xeon<sup>®</sup> CPUs and an Infiniband<sup>®</sup> switch fabric that employs [General-Purpose Computation on Graphics Processing Unit](#) (GPGPU) processing to deliver teraflop-level performance for deployed, compute-intensive, realtime signal- and sensor-processing applications that require parallelism and/or stream processing. Available with storage, 28-VDC power and specialized cooling subsystems that enable the system to operate in airborne and mobile ground-station environments, LibertyATX is the first deployable system to bring the power of scalable GPGPU processing to deployed environments.



[Lawrence Livermore National Laboratory](#) (LLNL) is the first customer to employ the new LibertyATX DHPC system. The LibertyATX DHPC system employed by LLNL consists of two airborne-qualified transit cases, eight Compute Nodes (each with dual Quad-Core Intel<sup>®</sup> Xeon<sup>®</sup> processors and dual NVIDIA<sup>®</sup> Quadro<sup>®</sup> FX GPUs), one Management/Visualization Node, an Infiniband-based switch fabric and a 100+ TB storage subsystem — all powered via 28-VDC airborne Power Distribution Units (PDUs). The system will be employed to support airborne realtime image processing with sensor data rates of up to one gigabyte per second.

“Quantum3D is leveraging the Company’s embedded realtime visual computing expertise to bring the power of GPGPU computing to the deployable HPC market with our new Liberty DHPC family,” said Ross Q. Smith, Quantum3D Co-founder and President. “LibertyATX is our first deployable COTS HPC system for piloted surveillance aircraft and ground stations. We are also developing smaller form-factor DHPC systems that will bring similar performance to unmanned aerial and ground vehicles and even man-wearable systems. With the rapid growth in advanced, deployable sensor platforms that require high-performance, on-board processing to reduce data link bandwidth requirements, we believe the Liberty DHPC product line is well poised for widespread adoption.”

### About Quantum3D

Quantum3D is an industry leading, small business supplier of COTS, open-architecture, realtime visual computing software and hardware products for the Embedded Visual Computing (EVC), Deployable High Performance Computing (DHPC), Visual and Sensor Simulation and Training (VSST) and Embedded Training (ET) market. Quantum3D’s VSST products include advanced [Image Generation](#) (IG) solutions, realtime scene management software and synthetic environment content. Quantum3D’s EVC products include FAA DO-178B Level A certifiable visual computing application development and deployment software and tactical, embedded and industrial visual computing systems and subsystems for C2/C4ISR, machine vision, sensor processing, unmanned vehicle operator control and embedded training applications. Quantum3D is a privately held company headquartered in San Jose, California, with development centers located in Glendale, AZ, Huntsville, AL, and Orlando, FL and with European sales via Quantum3D, Ltd., located in Reading, UK. For more information about Quantum3D, please visit [www.quantum3d.com](http://www.quantum3d.com).

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