Gigabyte Adds to AMD Epyc Server Line

Written by Frederick Douglas
03 August 2018

Gigabyte announces a trio of additions to the AMD Epyc server lineup, all aimed at the business and enterprise sectors-- the 2U G291-Z20 and G221-Z30 GPU servers, and the 4U S451-Z30 storage server.

The three systems are designed around the AMD Epyc single socket system, and promise enough power to replace a dual-socket server. The Epyc platform offers up to 32 cores, over 2TB memory capacity and 128 PCIe lanes per socket, allowing it to handle HPC workloads with over 16 simultaneously threads per schedulable task or process.

Both G291-Z20 and G221-Z30 servers are compatible with the AMD Radeon Instinct MI25 GPU, an accelerator able to deliver up to 24.6 TFLOPS of FP16 and 12.3 TFLOPS of FP32 peak performance, with large BAR (Base Address Register) support. The G291-Z20 supports up to x8 dual-slot GPGPU cards in a 2U chassis designed to maximise airflow through the GPU bays. It also features dual onboard M.2 ports, x8 2.5-inch hot-swappable HDD/SSD bays, dual SFP+ 10Gbps networking ports (upgradable to 256Gbps) and x2 PCIe x16 half-length low-profile slots for further expansion.

Customers demanding less density get the G221-Z30, with x2 dual-slot GPGPU cards, as well as dual slot (x1 PCIe x16 slots FHFL, x1 PCIe x 8 FHHL) expansion slots one can also use for a high speed networking card. The server also handles x16 2.5-inch SATA/SAS hot-swappable HDD/SSDs, and an onboard M.2 port allows high-speed flash storage. Networking comes through x2 SFP+ 10Gbps networking ports.

On the storage server side Gigabyte offers the S451-Z30-- a server with x36 3.5-inch drives (24 in the front, 12 in the rear) for up to 500TB of storage. Additional x2 x2 2.5-inch hot-swappable HDD/SSD bays in the rear handle OS boot disks, and allow customers to use the server as a standalone storage device. Since an SAS expansion card does not come included as standard,

customers can select an own HW or SW RAID card according to individual requirements.

Go [Gigabytes Adds New GPU and Storage Servers to AMD Epyc Server Lineup](#)

customers can select an own HW or SW RAID card according to individual requirements.