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TeraBox 2202D
2U FPGA Server

Preliminary Product Info

2U FPGA Server with PCIe Gen5

We've integrated one of the most popular 2U data center servers from Dell EMC with our full lineup of Achronix, AMD, and Intel FPGA-based cards. BittWare's TeraBox 2202D combines a high-powered dual-CPU (4th Generation Intel Xeon Scalable) host with high-density FPGA resources.

Configurations include two of BittWare's large double-width cards using Achronix Speedster 7t, Intel Agilex, or AMD UltraScale+ FPGAs. The system can also be configured with up to sixteen of BittWare's U.2 accelerators. No matter which configuration you choose, you're getting BittWare's installation and support, plus options for Dell server support.



Up to **two** double-wide FPGA cards can be configured
or **six**** low-profile cards

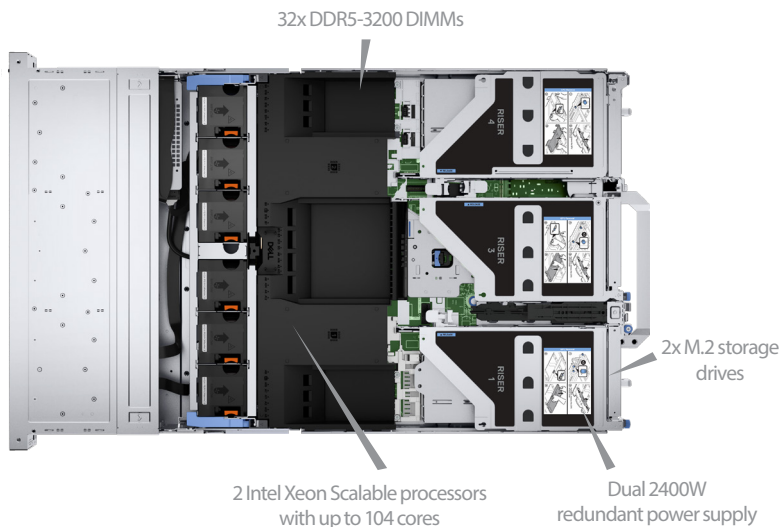


key features

Up to
6 QSFP-DDs
for 6x 400G,
24x 100G or 48x
10/25/50G

**PCIe
Gen5**

Support for BittWare's full
range of FPGA cards



chassis key specs

2U, depth 27.58 in (700.7mm)

Processor: (2) 4th Generation Intel® Xeon® Scalable processors

Memory: up to 32x ECC DDR5-4800 MT/s DIMMs

Slots: (2) DW/FH/FL Gen 5 x16 PCIe slots, (2) SW/HH/HL Gen 4 x16 PCIe slots, (2) SW/FH/HL Gen 4 x8 PCIe slot

Storage: (2) M.2 drives removable from rear (BOSS-N1)

Power supply: Platinum up to 2400W, redundant (1+1)



TeraBox 2202D

2U FPGA Server

The TeraBox 2202D is a 2U FPGA server based on the Dell PowerEdge R760 chassis. This server offers dual 4th generation Intel Xeon Scalable CPUs along with high PCIe slot density. With configurations of up to six low-profile cards or two of BittWare's large double-width cards, this server is an excellent premium option for the 2U form factor. Dell ProSupport options are also available.

System Management

For system management, BittWare's FPGA cards are equipped with a Board Management Controller (BMC), which accepts PLDM commands. Use it along with BittWare's Software Development Kit to program the FPGA over USB, monitor card power and temperature, and re-program the onboard clocks. You'll also be able to set points to shut down the card when it gets too hot, access JTAG, or access the software tools remotely.

The TeraBox Advantage

Choosing a TeraBox FPGA server means knowing you are getting a pre-configured and tested solution. This includes setup and installation of your FPGA cards and associated hardware, your choice of operating system, and development tools. Your TeraBox arrives ready for use—giving your team more time for development and deployment.

Server Configurations

Standard

- (2) Intel Xeon Gold 6426Y (2.5 GHz 16Core/32Thread) Processors
- (8) 16GB RDIMM, 4800MT/s
- BOSS-N1 controller card+ with (2) M.2 480GB (RAID 1) Drives
- (2) 1.6TB Enterprise NVMe Mixed Use U.2 Gen 4 Drives
- Redundant (1+1) 1400W Power Supplies
- ReadyRails sliding rails
- ProSupport and Next Business Day Onsite Service

Contact BittWare if this configuration is not exactly what you are looking for. BittWare can work with you to come up with a server configuration that suits your exact needs.

To learn more, visit www.BittWare.com

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