BittWare a **molex** company

TeraBox 210DE
2U FPGA Server

Short Depth 2U Server for FPGA Cards

We've integrated Dell's compact, ruggedized, and expandable 2U edge server with our full lineup of Achronix, AMD, and Intel FPGA-based cards. BittWare's TeraBox 210DE combines a high-powered 3rd Generation Intel Xeon Scalable host with high-density FPGA resources. At less than 19in/477mm deep, it offers accelerator-based performance outside of the data center.

Configurations include two of BittWare's large double-width cards using Achronix Speedster 7t, Intel Agilex, or AMD Virtex UltraScale+ FPGAs. The system can also be configured with four** low-profile cards or full height cards. No matter which configuration you choose, you're getting BittWare's installation and support, plus options for Dell server support.

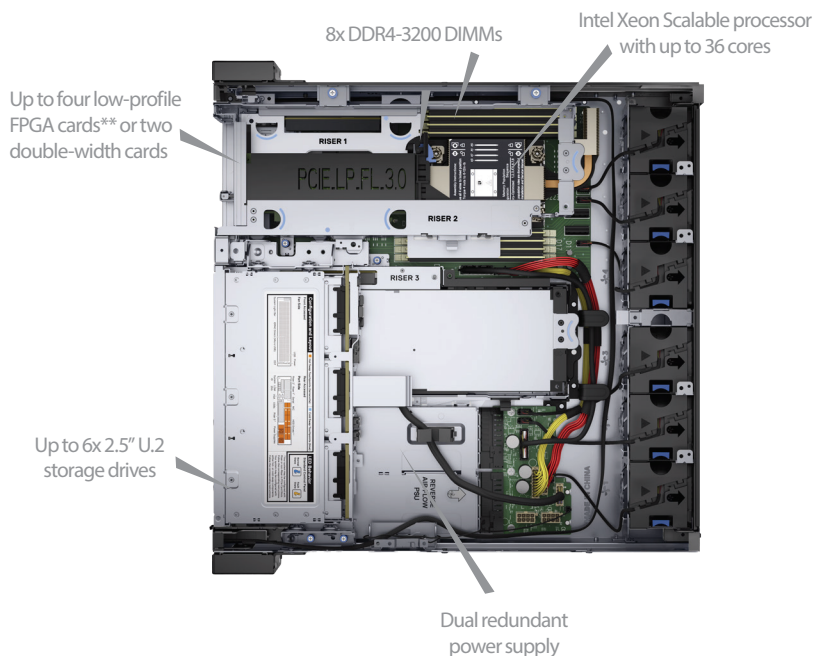Up to **two** double-wide FPGA cards can be configured or **four**** low-profile cards

key features

| Up to **6 QSFP-DDs** for 12x 100G or 48x 10/25G | **PCIe Gen4** | 4X Low-Profile** / 2X Double-Wide FPGA cards — Support for BittWare's full range of FPGA cards |

8x DDR4-3200 DIMMs

Intel Xeon Scalable processor with up to 36 cores

Up to four low-profile FPGA cards** or two double-width cards

PCIE.LP.FL.3.0

RISER 1

RISER 2

RISER 3

Up to 6x 2.5" U.2 storage drives

Dual redundant power supply

chassis key specs

2U, depth 18.77in (477mm)

Processor: (1) 3rd Generation Intel® Xeon® Scalable processors with up to 36 cores

Memory: 8x ECC DDR4-3200 MT/s DIMMs

Slots: (2) DW/FH/FL Gen 4 x16 -or- (4) SW/FH/FL Gen 4 x8 PCIe slots, (1) SW/HH/HL Gen 4 x16 PCIe slot

Storage: up to 6x 2.5" U.2 NVMe Slots

Power supply: Platinum up to 1400W, redundant (1+1)

TeraBox 210DE
2U FPGA Server

The TeraBox 2102D is a 2U FPGA server based on the Dell PowerEdge XR12 chassis. This server offers a 3rd generation Intel Xeon Scalable CPU along with high PCIe slot density. The XR12 is ruggedized, MIL-STD, and NEBS Level 3 compliant (server only) and is ideal for telecommunications, military, and retail applications. 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
- (1) Intel Xeon Platinum 8351N (2.4GHz, 36C/72T) processor
- 128GB DDR4-3200
- (1) 960GB Data Center NVMe Read Intensive AG Drive U2 Gen4
- (1+1) 1400W Platinum power supplies
- ReadyRails sliding rails for 2/4-post racks
- ProSupport and Next Business Day Onsite Service for Dell Server

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**

BittWare
a **molex** company