

BittWare
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TeraBox 1402B

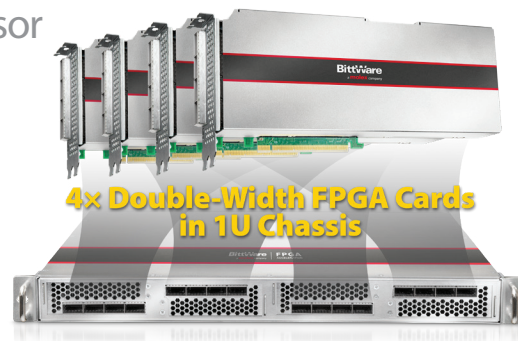
1U FPGA Server

Extreme Density Standard-Depth FPGA Server

1U, 4 card, PCIe Gen4 x16, Intel 3rd Gen Xeon Processor

At the extreme of FPGA server density, the TeraBox 1402B gives the highest level of compute and network capability in a 1U chassis. This server provides twice the density of the typical 4U server and the power of 4 of our largest Achronix Speedster7t, Intel Stratix 10 or AMD UltraScale+ FPGAs.

This innovative product supports PCIe Gen4 and features an Intel 3rd Gen Xeon processor in a standard rack depth chassis.

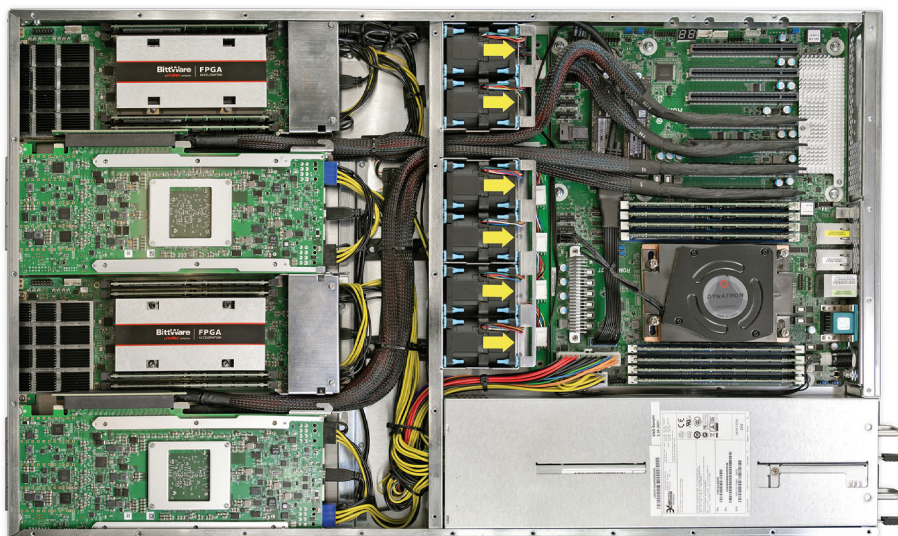


key features

Up to
16 QSFP-DDs
for 32x 100G or
128x 10/25G

1U
4 FPGAs in a
standard-depth
1U server

Standard Height
Double Slot
Support for BittWare's full
range of FPGA cards



chassis key specs

1U depth, 28.25 in (71.75 cm)

Processor: (1) Intel 3rd Gen Xeon Processor

Ethernet: 2 RJ45 (10GbE) Intel X710-AT2, 2 RJ45 (1GbE) Intel i210 and (1) RJ45 dedicated IPMI LAN

Memory: 8x DDR4 DIMMs

Storage: 2x M.2

Slots: 4x front panel PCIe Gen4 x16

Power supply: 1+1 AC 1300W, 110/220V

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BittWare FPGA Cards

The TeraBox 1402B supports up to four dual-slot BittWare PCIe FPGA cards. Choose from a variety of cards based on Achronix, AMD, and Intel FPGAs. System specs will vary greatly, depending on the FPGA card you select. For example, with four BittWare UltraScale+ PCIe cards, which support up to 512 Gbytes of DDR4 per card, the chassis can support as much as 2 Terabytes of DDR4 on the FPGA cards in 16 banks. With four Agilex cards using breakout cables, each chassis supports 48x 100GbE.

BittWare 1U Server

The TeraBox 1402B server featuring an Intel 3rd Gen Xeon Processor is exclusive to BittWare and is the ideal platform to unleash the energy-efficient acceleration of BittWare's FPGA cards. This FPGA-optimized 1U server delivers unrivaled performance density and value for a range of compute-intensive applications, including machine learning.

The server is assembled in the USA, is TAA compliant, and offers a 3-year warranty.

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 Configuration

Standard

- (1) Intel Xeon 5318N 2.1 GHz Processor
- 24 cores (48 virtual CPUs/Hyperthreads)
- 128GB DDR4
- (2) 1TB M.2
- (1+1) 1300W Power Supplies

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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