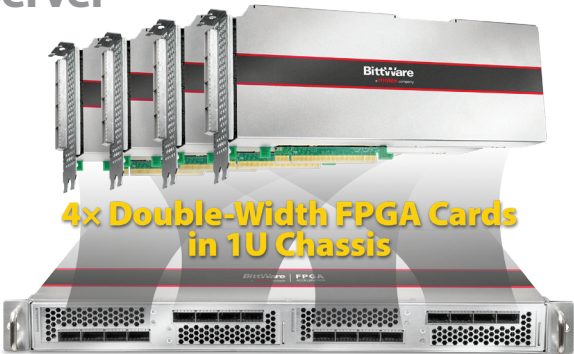**BittWare**
a **molex** company

TeraBox 1401B
1U FPGA Server

Extreme Density Standard-Depth FPGA Server
1U, 4 card, PCIe Gen4 x16, AMD EPYC 7002 series

At the extreme of FPGA server density, the TeraBox 1401B 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 AMD EPYC processor in a standard rack depth chassis.
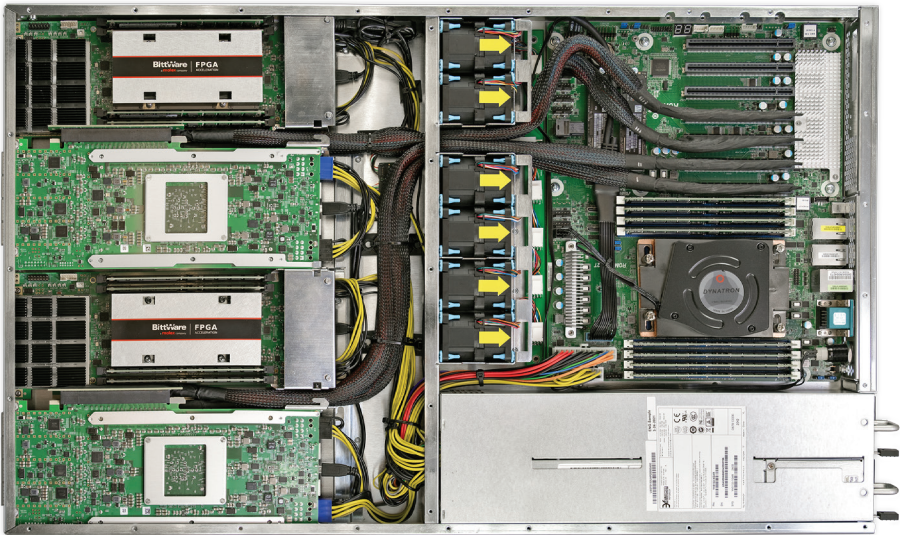
4× Double-Width FPGA Cards in 1U Chassis

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) AMD EPYC 7003 Series Processor

Ethernet: 2x RJ45 10G base-T by Intel® X550-AT2, 1x RJ45 Dedicated IPMI LAN port by RTL8211E

Memory: 8x DDR4 DIMMs

Storage: 2x M.2

Slots: 4x front panel PCIe Gen4 x16; 1x rear panel low-profile Gen4 x16 NIC slot

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

TeraBox 1401B
1U FPGA Server

BittWare FPGA Cards

The TeraBox 1401B 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 1401B server featuring AMD EPYC 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) AMD EPYC 7313 (3.0GHz, 16C/32T) Processor
- 128GB DDR4
- (2) 1TB M.2 (RAID1)
- (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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