BittWare a molex company

TeraBox 140EB
1U FPGA Enclosure

Extreme Density Standard-Depth FPGA Enclosure
1U, 4 card

At the extreme of FPGA server density, the TeraBox 140EB gives the highest level of compute and network capability in a 1U chassis. This enclosure provides twice the density of the typical 4U server and the power of four of our largest Achronix, Altera, or AMD FPGA-based cards.
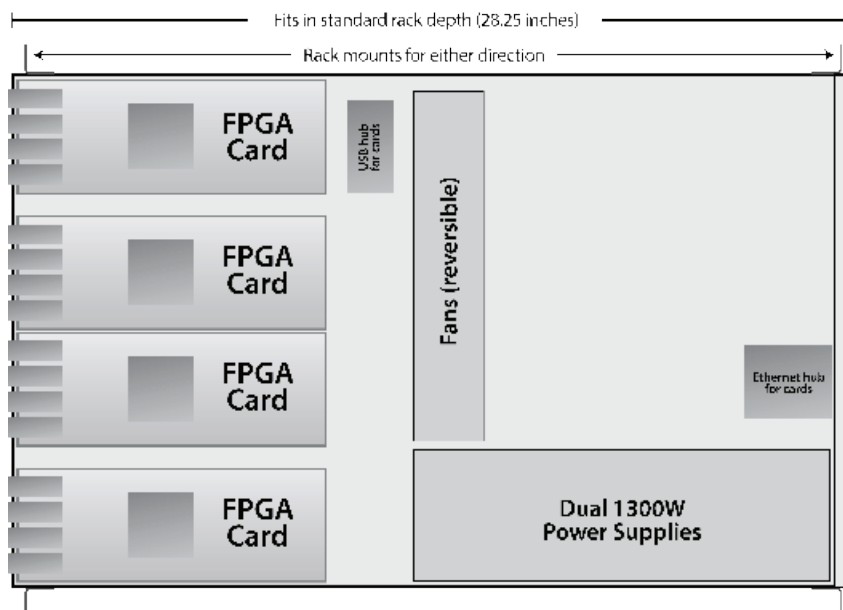

4x Double-Width FPGA Cards in 1U Chassis

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

Fits in standard rack depth (28.25 inches)
Rack mounts for either direction

FPGA Card
FPGA Card
FPGA Card
FPGA Card
USB hub for cards
Fans (reversible)
Ethernet hub for cards
Dual 1300W Power Supplies

chassis key specs

1U depth, 28.25 in (71.75 cm)

Ethernet: internal (4) port 1GbE hub to (1) external 1Gbe port

USB: (4) port USB hub (optional)

Slots: 4x front panel

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

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BittWare FPGA Cards

The TeraBox 140EB supports up to four dual-slot BittWare FPGA cards. Choose from a variety of cards based on Achronix, Altera, and AMD Xilinx FPGAs. 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 Chassis

The TeraBox 140EB enclosure is exclusive to BittWare and is the ideal platform to unleash the energy-efficient acceleration of BittWare's FPGA cards. This FPGA-optimized 1U chassis delivers unrivaled performance density and value for a range of compute-intensive applications

The enclosure is assembled in the USA, is TAA compliant, and has a one-year warranty. Extended warranties up to three years are available.

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.

To learn more, visit **www.BittWare.com**

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