

Reliable, Proven 2U FPGA Server Integrated into HPE ProLiant DL385 with AMD

We've integrated one of the world's highest performance servers from HPE with our latest generation of FPGA accelerators to help customers address the most demanding data center applications. The TeraBox™ 2000H is a 2U rack mount server based on the HPE ProLiant DL385 Gen10. It combines two AMD EPYC processors with up to three full-size PCle BittWare accelerators featuring the latest FPGAs from Achronix, Intel and Xilinx.





Up to **three** double-wide FPGA cards can be configured

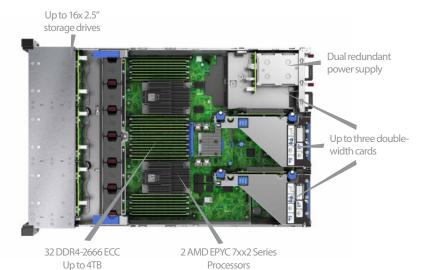


key features





3-yearSingle comprehensive warranty



chassis key specs

2U, depth 28.7 in (73cm)

Processor: 2 AMD EPYC 7xx2 Series Processors

Memory: 32x ECC DDR4-2666 DIMMs **Slots**: (3) DW/FH/FL Gen 3 x16 PCle slots

Storage: (2) 1.6TB SAS SSD drives

Power supply: Platinum up to 1600W, redundant (1+1)

TeraBox 2000H

2U FPGA Server

System Management

For system management, BittWare's FPGA cards are equipped with a Board Management Controller (BMC), which accepts IPMI 2.0 commands. Use it along with BittWare's BittWorks II Toolkit 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.

Certified Cards

The TeraBox 2000H supports many of BittWare's Achronix, Intel or Xilinx FPGA-based PCIe cards. The table below lists specifications for some of our certified cards*:

	FPGA	Cards per Server	Memory	1/0	Processing
S7t-VG6	Achronix Speedster7t	3	4 banks GDDR6 (up to 8 GBytes)	1x QSFP-DD, 1x QSFP28 6x 100/50/40/25/10 GbE	692K 6-input lookup tables (LUTs) 375 Mbits embedded RAM
520N-MX	Intel Stratix 10 MX	3	2 banks DDR4 (up to 256 Gbytes)2 banks QDRII+ (up to 1152 Mbits)16 GBytes HBM2	4x QSFP28s 4x 100/50/40/25/10 GbE	2.1 million system logic elements 3,960 DSP blocks
XUP-VV8	UltraScale+ VU13P	3	4 banks DDR4 (up to 512 GBytes)8 banks QDRII+ (up to 2.3 Gbits)	4x QSFP-DDs 8x 100/50/40/25/10 GbE	3.8 million system logic cells Up to 12,288 DSP slices

^{*} Other certified cards available. Additional expansion capabilities are also available via M.2 and U.2. Contact BittWare for details.







Server Configurations

Low

- (2) AMD EPYC 7262 processors
- 64GB DDR4 Memory
- (2) 1.6TB SSD SAS
- (1+1) 1600W Power Supplies

Medium

- (2) AMD EPYC 7302 processors
- 128GB DDR4
- (2) 1.6TB SSD SAS
- (1+1) 1600W Power Supplies

High

- (2) AMD EPYC 7542 processors
- 256GB DDR4
- (2) 1.6TB SSD SAS
- (1+1) 1600W Power Supplies

Ultra

- (2) AMD EPYC 7742 processors
- 512GB DDR4
- (2) 1.6TB SSD SAS
- (1+1) 1600W Power Supplies

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