

Bittivare a molex company TeraBox 1102S

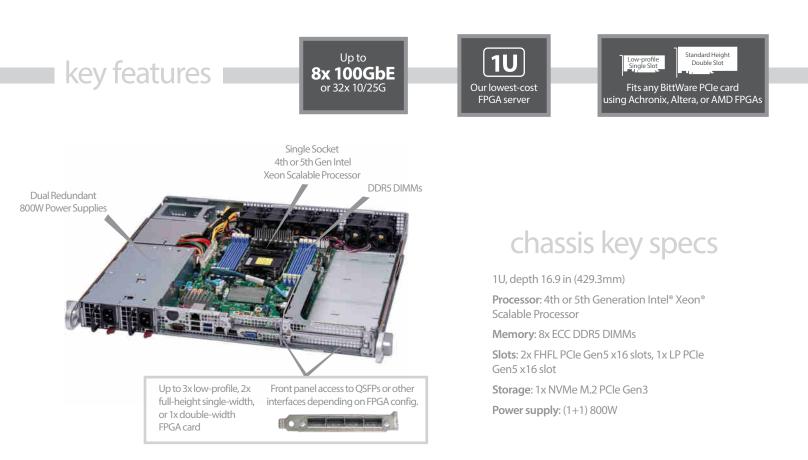
# Low-Cost PCIe Gen5 1U Server for FPGA Cards with Front Panel I/O Access

Looking for an economical 1U server for a double-width FPGA card or multiple single-width cards? BittWare's **TeraBox 1102S** is an excellent solution that doesn't limit your card options—any of our Achronix, Altera, or AMD FPGA equipped PCIe cards are compatible! Front panel PCIe access gives you the best access to I/O, with up to 8x 100G or 32x 10/25G in a single rack space.



Single- or double-wide cards featuring Achronix, Altera, or AMD FPGAs





# **1U PCle Gen5 Server**

The TeraBox 1102S is a 1U server based on the SuperMicro SYS-111E-FWTR. Featuring an Intel 4th or 5th Gen Xeon Processor, it is the ideal platform to unleash the energy-efficient acceleration of BittWare's FPGA cards. This FPGAoptimized 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 and offers a 3-year warranty.

### 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 Configuration**

### Standard

- (1) Intel Xeon Silver 4410T (2.0 GHz, 12C/24T) processor
- (1) 16GB DDR5-4800
- (1) 960GB NVMe M.2 Gen3
- (1+1) 800W AC power supplies

The server has additional space for (2) 2.5'' internal SATA drives and an option for a (1+1) 600W DC power supply.

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.

# **Key Applications**

The TeraBox 1102S is ideal for applications in:

- Multi-access edge computing
- Flex-RAN, Open-RAN
- Artificial Intelligence (AI) on the Edge
- Machine learning (ML)
- Satellite communication
- 5G applications

v0 | last revised 2024.04.01

© BittWare 2024

UltraScale, Virtex, and Vivado are registered trademarks of Xilinx Corp. Arria is a trademark of Intel Corp. All other products are the trademarks or registered trademarks of their respective holders.



International Distributor



Sky Blue Microsystems GmbH Geisenhausenerstr. 18 81379 Munich, Germany +49 89 780 2970, info@skyblue.de www.skyblue.de