

# VeriTiger®-DE4000T

VeriTiger®-DE4000T is the most deployed prototyping system from HyperSilicon, using Xilinx Virtex UltraScale XCVU440 FPGA, which is the industry's only high-end FPGA at the 20nm process node. VeriTiger-DE4000T delivers high performance, fast running speed and flexible scalability to accelerate software development, system verification and validation. Through the Protowizard® software to manage prototyping runtime resource and Semu® software to deliver highest debug productivity, VeriTiger-DE4000T can dramatically reduce the time-to-tapeout (TTT) pressure of digital IC design.



## Hardware

### FPGA Information

- ▣ 2 Xilinx Virtex UltraScale XCVU440 FPGAs
- ▣ 52 Million Estimated ASIC Gates
- ▣ 11082K System Logic Cells
- ▣ 177.2Mb Total Block RAM
- ▣ 5760 DSP Slices

### Clock Resources

- ▣ 20 Programmable Differential Clocks
- ▣ 2 Clocks at 20MHz, 2 Clocks at 27MHz
- ▣ 16 QTH Differential Clock Inputs, 16 QTH Differential Clock Outputs
- ▣ 8 Programmable Differential Clock Outputs on Front Panel
- ▣ 4 Dedicated Switchable MGT Clocks
- ▣ 2 Multi-FPGA Shared and Global Programmable Differential ZCLK Clocks
- ▣ 4 Global Programmable and Direct Connect-to FPGA Differential Clocks Offered By 4 Pairs of MMCX Connectors

### Connector Resources

- ▣ 8 HSPI2-MGT Connectors , Offering 64 Lanes GTH Channel
- ▣ 2 QSFP Interfaces, Offering 8 Lanes GTH Channel
- ▣ 16 HSPI2-DQS Connectors
- ▣ 4 HSPI2-CAC Connectors
- ▣ 20 HSPI2-LVDS Connectors, Offering 476 LVDS Differential Pairs
- ▣ 2056 High-performance I/Os in total in HSPI2 Connectors
- ▣ 4 QTH-MGT Connectors, Offering 8 Lanes GTH Channel and 48 Single-ended I/Os
- ▣ 2 DDR4 SO-DIMM on top panel, supporting ECC, providing up to 32GB of memory, and running at 2,133Mbps most
- ▣ 2 DDR3 SO-DIMM on top panel, providing up to 32GB of memory, and running at 1,866Mbps most
- ▣ 8 Independent Buttons, 4 Four-digit DIP Switches, 16 User-defined LED Lights

### Platform Parameters

- ▣ Dimensions: L447mm, W340mm, H95mm
- ▣ Weight: 7.0 Kg
- ▣ Max Power Consumption: 300W

