

### OVERVIEW

The SC6-Mini, a small form factor unit, is a Linux-based desktop PC configured with up to six FPGA modules (Altera or Xilinx variants) or single-board computers featuring the Hybrid Memory Cube, delivering an unprecedented level of desktop performance. Being orders of magnitude faster than a conventional CPU-based computer, the SC6-Mini is the ideal desktop solution for high-performance computing applications that span bioinformatics to cryptography, deep learning to signal processing. What's more, it uses only a fraction of the energy of conventional processor-based systems.

Pico Computing's included Software Application Framework is a Linux-based design environment that provides the vital link between your application software running on a host computer and the hardware algorithm, or firmware, implemented in the FPGAs, making quick and easy work of system design.



### SPECIFICATION SUMMARY

- Choice of up to six of Pico Computing's high-performance FPGA modules per PCIe backplane (Xilinx UltraScale or Altera Stratix variants) or single-board computers featuring the Hybrid Memory Cube
- Intel Core i7-5930K Haswell-E 6-Core 3.5 GHz LGA 2011-v3 140W
- 4 x DDR4 slots; up to 64GB max DDR4 (quad channel)
- 1 x 2.5" internal SSD hard drive
- Fully Switched PCIe Gen 3 architecture
- Intel I217 (10/100/1000) Gigabit Ethernet LAN
- Three cooling fans
- 750W 80+ Gold Certified power supply
- Micro ATX motherboard with X99 chipset
- Three PCIe slots: 2 x16; 1 x8
- AMD Radeon HD 5450 1GB video card (with VGI, DVI, and HDMI)

### FULL SUPPORT OF OPENCL

OpenCL enables significantly faster time to market by facilitating a higher level of design abstraction (versus conventional FPGA design flows) that also yields end designs with higher performance and greater power efficiency. Pico Computing offers a complete, easy-to-use turnkey OpenCL workstation (fully integrated within the SC6-Mini chassis) for FPGA-based development (in Xilinx and Altera configurations), making it the ideal platform for OpenCL developers and myriad high-performance applications.