

# Tachyum Prodigy™ Emulation System

“WHIZ”

Processor	
Processor	Tachyum Prodigy FPGA CPU, T216 to T864; Up to 64-cores 64-bit core with 1024-bit vector operations AI/ML vector and matrix acceleration
Processor Sockets	One
System Bus	Tachyum (C2C), Interconnect; 112 Gb/s
L2 Cache	512 KB/core
Memory	
Capacity	Up to 8 TB RDIMM
Type	Up to 2400 MT/s DDR4 UDIMM, RDIMM, and LRDIMM
Size	Up to 8 DDR4 DIMM per board, or up to 32 DDR4 DIMM for the system. Support for NVDIMM-N
Storage and I/O	
Storage	Drive bay with 2 NVMe drives (2.5") One PCIe x4 M.2 SSD module for fast boot
Expansion Slots	One PCIe x16 HHHL slot One PCIe x8 slot
BMC Chipset	ASPEED AST2600
Remote Management	IPMI v2.0 Compliant
LAN	One GbE Dedicated BMC port
TPM	
TPM	Yes (TPM 1.2/2.0)
Form Factor, Power Supply, and Physical Specifications	
Form Factor	(Multi-boards interconnect)
Power Supply	Multiple ATX Power Supplies
Form Factor and Dimensions	12U (Cabinet); 600 (W) x 450 (D) x 640 (H) (mm)
OS	
Support List	Linux Kernel 5.10
Development Tool Set	
Intel/Altera USB Blaster	PL-USB2-BLASTER (Programming FPGA's)
Software Debugger	JTAG Debugger from Segger (or equivalent), 20-pins standard 0.1" (2.54mm) header
Operating Environment	
Operating Environment	Operating temperature: 5°C to 40°C Non-operating temperature: -40°C to 70°C Operating relative humidity: 20% to 85%RH Non-operating relative humidity: 10% to 90%RH
Compliance	
OCP Compliance	N/A

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