

HS-ADC Supercomputer

24-channel @ 2.7 GSPS



Picture of similar system

High speed ADC System 24-Channels

- MicroTCA system 19", 5U with 12 single-width, full-size AMC-slots and 1000W AC power supply, advanced clock redundancy
- 1x MCH with fully managed Gigabit Ethernet switch, PCIe switch, Stratum-3 clock and JTAG virtual probe
- 6x AMC Kintex Ultrascale FPGA with 4x ADC 2.7 GSPS@12-bit, high FPGA speed
- ★ 1x AMC Intel x86 Core i7 CPU, 8GB SDRAM and 500GB Samsung SSD on carrier
- 1x Clock Distribution Module with 2x 6-channel synchronous clock (2.7GHz / 100MHz) including cables

HS-ADC Supercomputer



The **HS-ADC Supercomputer** consists of a 5U MicroTCA system with MCH with full-managed Gigabit Ethernet switch and PCIe switch, 6 Kintex Ultrascale FPGA Boards with 4 ADCs 2.7 GSPS @ 12-bit each, Intel x68 Core i7 CPU board with 8GB SDRAM and 500GB SSD on carrier, Synchronous Clock-Distribution Module with 2x 6 channels.

MicroTCA System	FPGAs	Xilinx Kintex Ultrascale	
Features	CPU	Intel x68 Core i7	
	Memory	8 GB DDR3	
	Storage	500 GB SATA SSD	
Interfaces	Ethernet	2x Gigabit Ethernet RJ-45 on CPU,	
(Frontpanel)		2x Gigabit Ethernet and 1x 100BaseT RJ-45 on MCH	
	Analog	24x analog input SMPM on FPGA boards	
	USB	1x USB 2.0 on CPU	
	Graphic Ports	1x Mini-Displayport on CPU	
	Serial Ports	1x RS-232 on CPU, 6x RS-232 on FPGA boards and	
		1x RS-232 on MCH	
	Clocks	12x clock output SMPM on clock distribution module and	
		12x clock input SMPM on FPGA boards	
Software Support	Linux on CPU	Ubuntu 18.04	
Mechanical	Mounting	Desktop or rack-mount	
	Dimensions (W x H x D)	19" x 5U x 10,5" without handles	
	Weight	TBD	
Power	Input Voltage Range	240 VAC	
Power Consumption	Typical	TBD	
Environment	Operating Temperature	0°C to 45°C (55°C for limited time)	
	Storage Temperature	-40°C to +70°C	

Ordering Information:

Configuration	Description	Order Code	a action
HS-ADC Supercomputer	High-Speed ADC System 24 channels @ 2.7 GSPS	A09653	in for infor
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