ATC128

ATCA Rugged Blade Processor with Dual Xeon Cascade Lake-SP



Key Features

- Dual socket 24-core Intel® Xeon® Platinum Processors -Scalable Performance (SP)
- Multiple SKU support (i.e. 8256, 8253, 6238T, 6230T, 5220T, 5218T, 4209T, etc.)
- Twelve banks of DDR4 for up to 384 GB with ECC per socket (total of 768 GB)
- PCle Fabric and expansion channels
- Dual 10/100/1000Base-T Base Channels
- Dual 10GbE Copper via front panel
- Dual USB 3.0
- IPMI Management Controller with Serial Over LAN capabilities (SOL)
- BIOS redundancy boot with multiple Watch Dog Timers (WDTs) for fail-over, before and after BIOS boot

Benefits

- High performance rugged processor blade
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company





ATC128

The ATC128 is a high performance ATCA processor blade featuring dual 24 core Intel® Xeon® processors, each with six banks of memory providing up to a total of 384 GB DDR4 memory with ECC per socket (total Blade memory is 768G).

ATC128 is versatile in connectivity and includes two PCle Fabric Interfaces, PCle to RTM expansion, dual GbE base Interfaces, dual front panel GbE egress Ports, front panel Micro USB (RS-232), USB 3.0 Ports and front panel VGA connector. Onboard mSATA storage is available for local boot.

The ATCA blade is PXI-boot capable via any of the onboard Ethernet interfaces. It offers Serial over LAN (SOL) utilizing Hardware Random Number Generation (RNG) to form a secure session.

The ATC128 has dual redundant BIOS-boot capability with multiple (WDTs) for fail-safe, before and after OS boot. The ATC128 has an onboard FPGA which allows secure boot of the system. The FPGA can be reprogrammed by the customer to meet their security requirement.

The Unit uses one of the most feature rich Health Management Module in the industry, incorporating HTTP and HTTPS support, Web Interface, added security with SSL, multiple user permission level, etc.

The ATC128 can be ruggedized for harsh environments. See customer ordering options for conformal coating.



Figure 1: ATC128



Figure 2: ATC128 (with heat sink)

Block Diagram

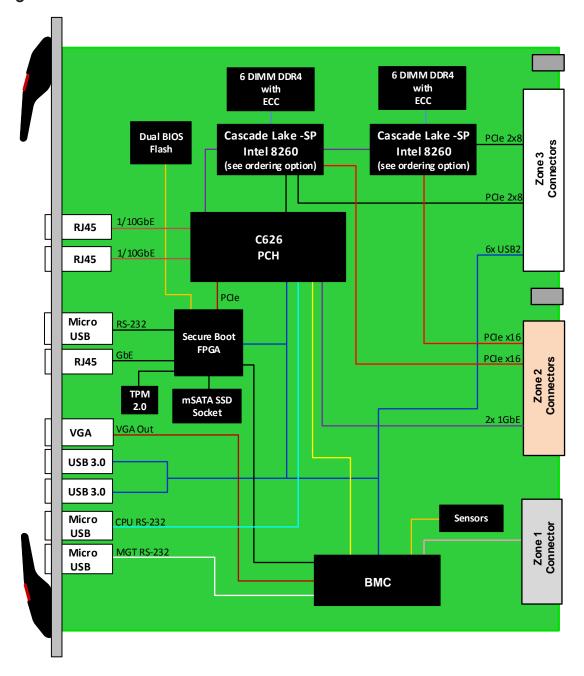


Figure 3: ATC128 Functional Block Diagram

Specifications

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Architecture			
Physical	Dimensions	Width: 12.687" (322.25 mm)	
		Depth: 11.024" (280 mm)	
Туре	ATCA Processor	Dual Intel Xeon	
	Memory	2 banks of DDR4 with 6 DIMM per socket	
Standards			
ATCA	Туре	PICMG 3.0 Revision 3.0	
Module Management	IPMI	IPMI v2.0	
Configuration			
Power	ATC128	~350W (CPU SKU and memory dependent)	
Environmental	Temperature	See Ordering Options	
		Storage Temperature: –40° to +85°C	
	Vibration	0.5G 5 to 500 Hz on each axis	
	Shock	Operating 30Gs on each axis	
	Relative Humidity	5 to 95% non-condensing	
Front Panel	Interface Connectors	x2 USB 3.0	
		x3 RJ-45 for 1/10GbE	
		x3 Micro USB for Serial Management Ports	
		VGA	
	LEDs	IPMI, Activity, Status and User defined	
	Ejector Handles	Hot-swap with micro-switch	
Software Support	Operating System	Linux	
Other			
MTBF	MIL Hand book 217-F@ TBD hrs		
Certifications	Designed to meet FCC, CE and UL certifications, where applicable		
Standards	VadaTech is certified to both the ISO9001:2015 and AS9100D standards		
Warranty	Two (2) years, see VadaTech Terms and Conditions		
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INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), Power Modules, and more. The company also offers integration services as well as preconfigured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

ATC128 - ABC-DE0-0HJ

A = Processor Xeon SKU*	D = DRAM per Processor**	
0 = Reserved 1 = 8256 3.8 GHz, 4 cores 2 = 8253 2.2 GHz, 16 cores 3 = 6238T 1.9 GHz, 22 cores 4 = 6230T 2.1 GHz, 20 cores 5 = 5220T 1.9 GHz, 18 cores 6 = 5218T 2.1 GHz, 16 cores 7 = 4209T 2.2 GHz, 8 cores 8 = Reserved 9 = Reserved	0 = 384 GB 1 = 192 GB 2 = 96 GB	
B = Number of Processors	E = mSATA SSD Socket	H = Temperature Range
0 = Dual 1 = Single	0 = No disk 1 = One TB 2 = Two TB	0 = Commercial 1 = Industrial
C = Panel Size*		J = Conformal Coating
0 = 6 HP 1 = 9 HP 2 = 12 HP		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Notes:

Related Products

ATC126



- Dual 14-core Intel® Xeon® E5-2658, 2680, 2648L, 2618L, 2620, 2630 v4 processors
- Eight banks of DDR4 for up to 256 GB memory
- 10/40GbE Fabric channels

ATC129



- Dual socket 24-core Intel® Xeon® Platinum Processors Scalable Performance (SP)
- Twelve banks of DDR4 for up to 384 GB with ECC per socket (total of 768 GB)
- Dual 100G ethernet to Zone Two

VT830



- 19" rackmount 6U ATCA Chassis with integrated Switch and Shelf Manager
- 10GbE/GbE Managed Layer 2
- 40GbE/10GbE/GbE Managed Layer 3

^{*}Other SKU's are supported please contact VadaTech sales

^{**}The DRAM is per socket. For example, D = 0 (total memory 768 GB)

Contact

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