ATC127

ATCA PCle Rugged Processor with Dual Xeon E5-26xx v4



Key Features

- Dual 14-core Intel® Xeon® E5-2658, 2680, 2648L, 2618L, 2620, 2630 v4 processors
- Eight banks of DDR4 for up to 256 GB memory
- PCIe Gen3 x16 Fabric channels
- GbE and 10GbE, graphics and USB on front panel
- IPMI Management Controller with Serial Over LAN (SOL) capabilities
- Trusted Platform Module (TPM)
- BIOS redundancy boot with multiple Watch Dog Timers (WDT) for fail-over, before and after BIOS boot

Benefits

- High performance 40G rugged processor blade
- Electrical, mechanical, software, and system-level expertise in house
- · Full system supply from industry leader
- AS9100 and ISO9001 certified company





ATC127

The ATC127 is a high performance ATCA processor blade featuring dual 14-core Intel® Xeon® processor (E5-2658 v4, E5-2680 v4, E5-2648L, 2618L, 2620 or 2630 v4), with eight banks of memory up to 256 GB DDR4 memory. Versatile connectivity includes two PCIe Gen3 x16 Fabric Interfaces, dual GbE Base Interfaces, dual front panel GbE egress Ports, front panel dual RS-232 and USB 3.0/2.0 Ports and front panel DVI-I 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 SOL utilizing Hardware Random Number Generation (RNG) to form a secure session. The unit has dual redundant BIOS-boot capability with multiple WDT for fail-safe, before and after OS boot.

The ATC127 can be ruggedized for harsh environments and comes with conformal coating per customer ordering options.



Figure 1: ATC127

Block Diagram

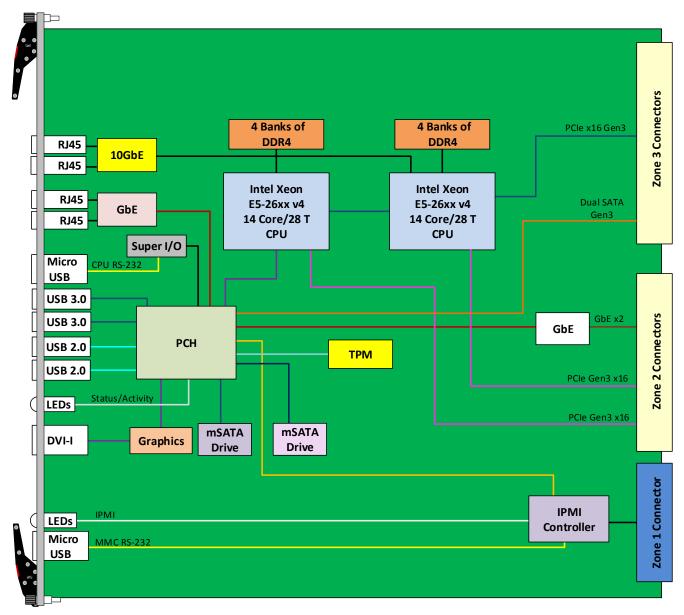


Figure 2: ATC127 Functional Block Diagram

Specifications

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Architecture			
Physical	Dimensions	Width: 12.68" (322.25 mm)	
		Depth 11.02" (280 mm)	
Туре	ATCA Processor	Dual Intel Xeon E5-2658 v4, E5-2680 v4 or E5-2648L v4	
	Memory	Eight banks DDR4, up to 256 GB total	
Standards			
PICMG	ATCA	PICM 3.0 R3.0	
Module Management	IPMI	IPMI v2.0	
Configuration			
Power	ATC127	~250W for E5-2658A v4, ~300W for E5-2680 v4	
Environmental	Temperature	See Ordering Options	
		Storage Temperature: –40° to +70°C	
	Vibration	Operating 9.8 m/s ² (1G), 5 to 500Hz on each axis	
	Shock	Non-operating 20Gs peak, 11 ms duration	
	Relative Humidity	5 to 95% non-condensing	
Front Panel	Interface Connectors	Dual RJ-45 GbE; Dual RJ-45 10GbE	
		Dual RS-232	
		Dual USB 2.0 and dual USB 3.0 Ports	
	LEDs	IPMI management control	
		Activity/Link user LEDs	
	Mechanical	Hot-swap with micro switch	
Software Support	Operating System	Windows Server 2008 R2, Red Hat Enterprise Linux 6, Intel® DPDK supported	
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

ATC127 - AB0-DE0-0HJ

A = Processor	D = First mSATA Drive*	
0 = Xeon E5-2658 v4, 2.3 GHz, 14 core 1 = Xeon E5-2680 v4, 2.4 GHz, 14 core 2 = Xeon E5-2648L v4, 1.8 GHz, 14-core 3 = Xeon E5-2618L v4, 2.2 GHz, 10-core 4 = Xeon E5-2620 v4, 2.10 GHz, 8-core 5 = Xeon E5-2630 v4, 1.8 GHz, 10-core	0 = 1 TB 1 = Reserved	
B = DDR4 Memory Size (Total)*	E = Second mSATA Drive*	H = Temperature Range
0 = Reserved 1 = 128 GB 2 = 256 GB 3 = Reserved	0 = 1 TB 1 = Reserved 2 = No second mSATA drive	0 = Commercial 1 = Industrial
		J = Conformal Coating
		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Notes:

Related Products

ATC126



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

ATC136



- Xilinx Virtex-7 FPGA
- Four core QorlQ P2040 Power PC
- Eight channel ADC 10-bit @ 2 GSPS (EV10AS150B) Single DAC 14-bit @ 2.8 GSPS (AD9129)

ATC121



- Processing Carrier w/ PCIe edge Module
- Xeon E3-1268L V3 Processor with 32 GB ECC
- x16 standard PCle Gen 3 slot

^{*}VadaTech reserves the right to supply larger capacity unless specifically stated otherwise on the Purchase Order

Contact

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