ATC123

PCIe Gen 3 ATCA Carrier with Low-Power Xeon E3

ATC123

Key Features

- ATCA Processing Carrier with a standard PCIe edge Module
- Xeon E3-1268L V3 Processor with 32 GB ECC
- Quad Core @ 2.3 GHz or Turbo Frequency @ 3.3 GHz
- x16 standard PCIe Gen 3 slot (only x8 routed)
- Dual 40GbE to Fabric channels, Dual GbE to Base channels and Dual GbE to the front panel
- Dual Display Port (DP) and VGA
- TPM (Optional)

Benefits

- Combined standard edge-type PCIe Gen 3 I/O with a lower power Xeon CPU
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

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The ATC123 is a Carrier Module with an onboard x16 PCIe Gen3 slot (only x8 PCIe is routed to the slot) to accept any standard PCIe edge type module.

The module has dual 40GbE connected to the Fabric channels, dual GbE to the base channels and is supplied with 32 GB of ECC memory. It also has an option for Trusted Platform Management (TPM).

The front panel includes four USB 3.0, DP, VGA, RS-232, and dual GbE.

The ATC123 can accommodate a dual width PCIe module with the dual width ATCA front panel option, expanding the board pitch from 1.2" to 2.4".


Figure 1: ATC123

Block Diagram
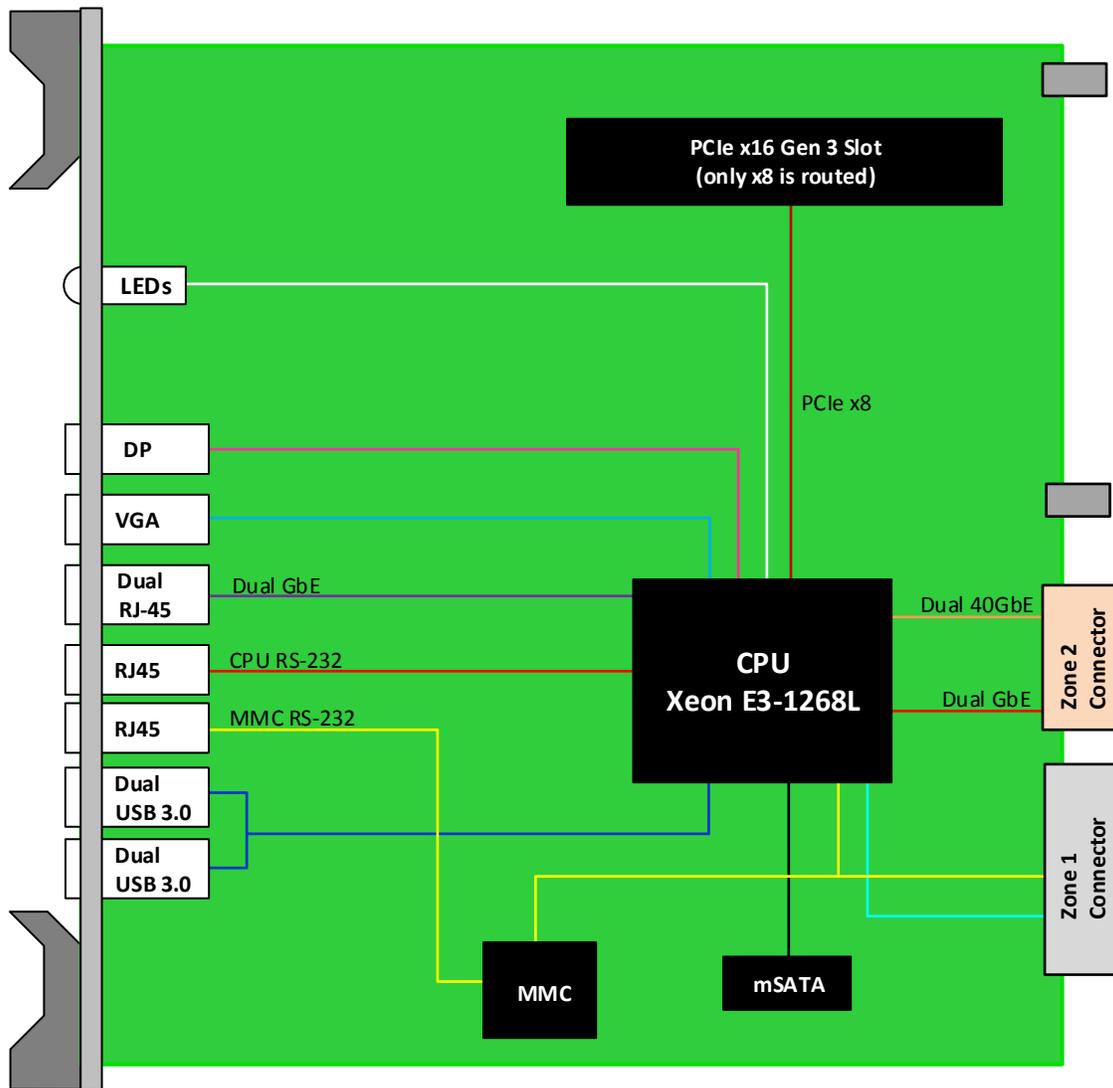
*Figure 2: ATC123 Functional Block Diagram*

Front Panel
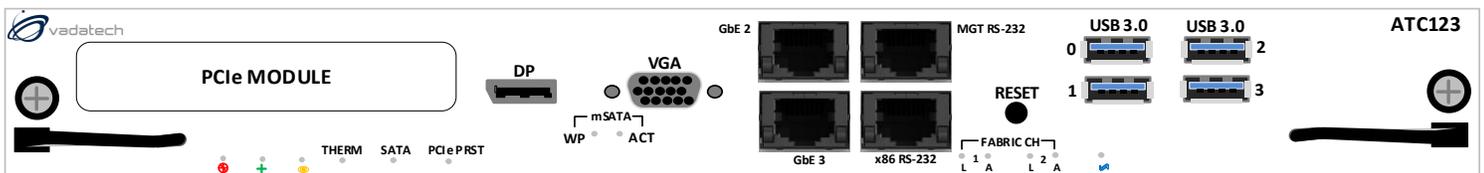
Figure 3: ATC123 Front Panel

ATC123 – PCIe Gen 3 ATCA Carrier with Low-Power Xeon E3

Specifications

Architecture		
Physical	**Dimensions**	Width: 12.687" (322.25 mm)
	FPGA	Depth: 11.024" (280 mm)
Type	**ATCA Carrier**	PCIe x16 standard edge (only x8 routed)
Standards		
PCIe	**Type**	x16 PCIe Gen3 (only x8 is routed)
Module Management	**IPMI**	IPMI v2.0
PICMG	**ATCA**	PICMG 3.0 revision 2.0
Configuration		
Power	**ATC123**	90W without PCIe I/O module
Environmental	**Temperature**	See ordering options and environmental spec sheet (Air flow requirements are to be greater than 200 LFM)
		Storage Temperature: –40° to +60°C
	Vibration	0.5G RMS,20 to 20000 Hz random (operating)
		6Gs RMS (non-operating)
	Shock	Operating 30Gs on each axis
	Relative Humidity	5 to 95% non-condensing
Front Panel	**Interface Connectors**	4x USB 3.0
		VGA
		2x RJ-45 GbE
		DP
		2x RJ-45 RS-232
	LEDs	Status
Software Support	**Operating System**	Linux, VxWorks and Windows
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 ISO9001:2000 and AS9100B:2004 standards
Warranty		Two (2) years

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 pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

ATC123 – ABC-000-0HJ

A = ATCA Panel		
0 = Standard width (1.2") 1 = Double width (2.4"), accepts dual width PCIe module 2 = Standard width, solid f/panel (no PCIe module slot)		

B = mSATA Size*		H = Temperature Range
0 = No mSATA 1 = 1 TB 2 = Reserved 3 = Reserved 4 = Reserved		0 = Commercial (–5° to +55°C) 1 = Industrial (–20° to +70°C)

C = TPM		J = Conformal Coating
0 = No TPM 1 = TPM		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Notes: *Please call VadaTech Sales for mSATA size.

Related Products

VT830

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

ATC806

- 40G or 10G ATCA switch, compliant to PICMG 3.1 specifications
- Scalable throughput based on desired performance level
- Managed Layer 3 software

ATC133
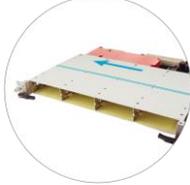
- 10G ATCA Carrier
- Xilinx Virtex-7 FPGA (XC7V690T in FFG1761 package)
- Four full-size AMC slots

Contact

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