ATC122

PCIe Gen 3 ATCA Carrier with Low-Power Xeon E3

ATC122

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
- Dual 10GbE 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 ATC122 is a Carrier Module with an on board x16 PCIe Gen3 slot to accept any standard PCIe edge type module. The module has dual 10GbE connected to the Fabric channels and dual GbE to the base channels. It comes 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 ATC122 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: ATC122

ATC122 – PCIe Gen 3 ATCA Carrier with Low-Power Xeon E3
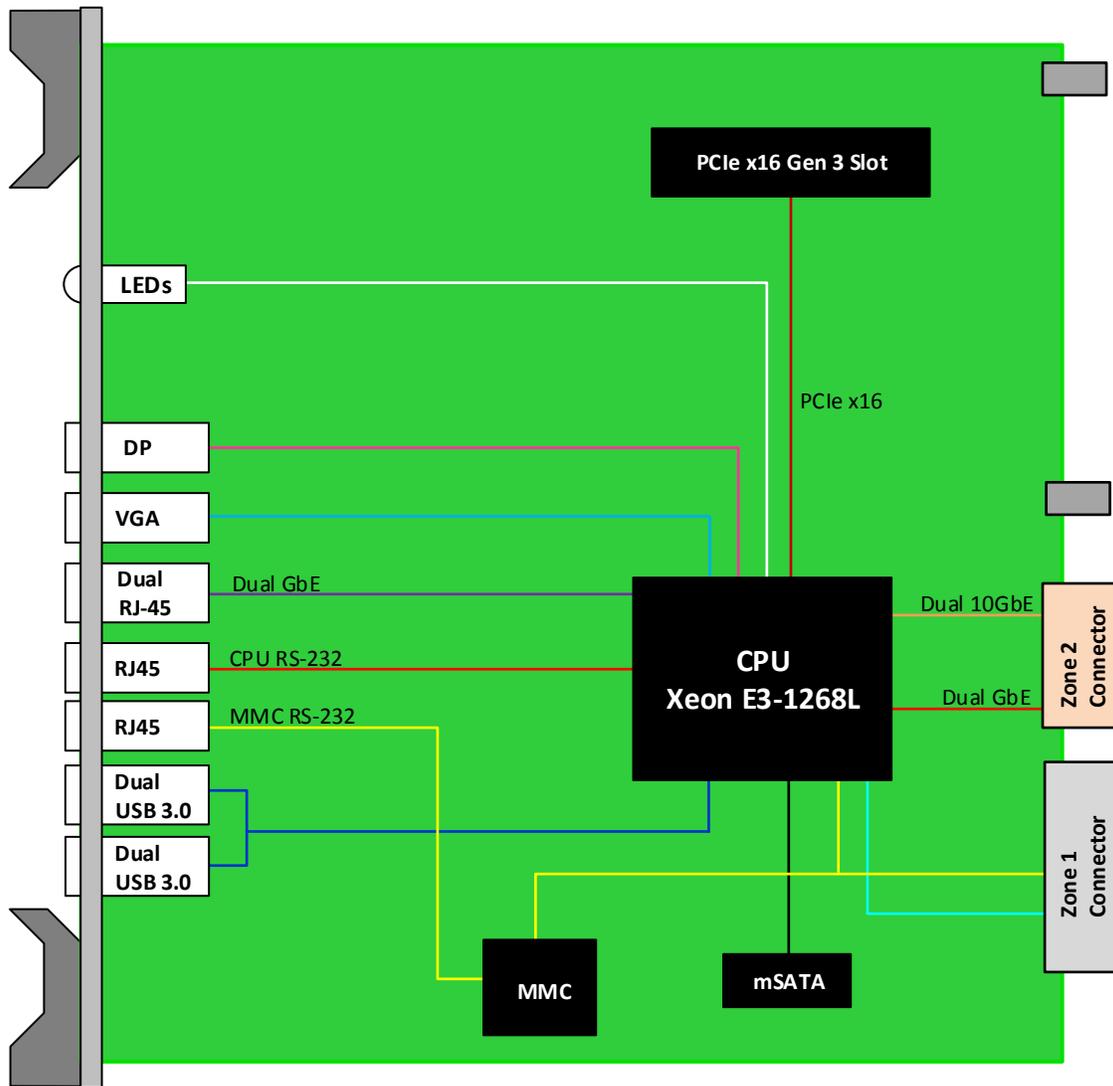
Block Diagram

Figure 2: ATC122 Functional Block Diagram

Front Panel
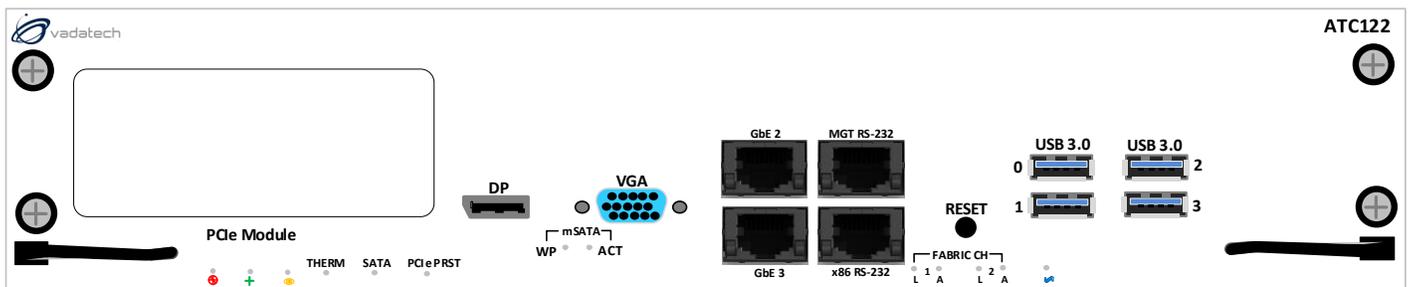
Figure 3: ATC122 Front Panel

ATC122 – 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
Standards		
PCIe	**Type**	x16 PCIe Gen3
Module Management	**IPMI**	IPMI v2.0
PICMG	**ATCA**	PICMG 3.0 revision 2.0
Configuration		
Power	**ATC122**	80W without PCIe I/O module
Environmental	**Temperature**	See Ordering Options (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, see VadaTech Terms and Conditions

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

ATC122 – 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
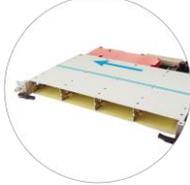
- 10G ATCA Carrier
- Xilinx Virtex-7 FPGA (XC7V690T in FFG1761 package)
- Four full-size AMC slots

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