

ATC121

PCIe Gen 3 ATCA Carrier with Low-Power Xeon E3



ATC121

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
- Dual Display Port (DP) in with DP to DVI-D converter
- Dual DVI-D output via LFH-59
- USB 3.0 and USB 2.0
- On board mSATA socket
- Utilizes on-board VadaTech VT003 third generation shelf manager

Benefits

- Combined standard edge-type PCIe Gen 3 I/O with a lower power Xeon CPU
- VadaTech's Scorpionware® Shelf Management Software included at no additional cost
- 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 ATC121 is a PCIe Gen3 Carrier Module. The ATC121 has an on board x16 PCIe Gen3 slot to accept any standard PCIe edge type module. The ATC121 comes with 32 GB of ECC memory. It has dual on-board Display Port (DP) to DVI-D converter. The on-board processor provides DP output with dual GbE on the front panel. The ATC121 has an option for the TPM (Trusted Platform Management).

The ATC121 has an option for the VadaTech Shelf Manager VT003 (VadaTech third generation shelf manager) which allows the elimination of the shelf slot in the chassis.

An ART121 Rear Transition Module (RTM) is available for the ATC121.

Sales and/or export restrictions may apply to some option combinations of this product. Please contact VadaTech sales for details or consider ATC122 as an alternative.

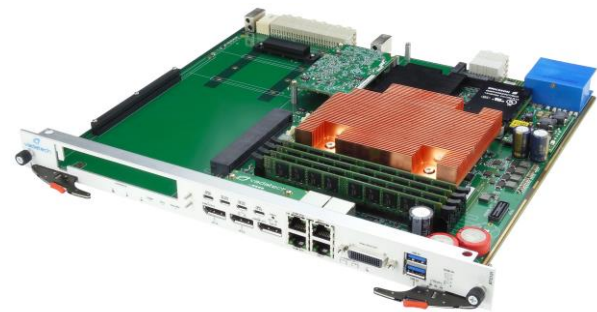


Figure 1: ATC121 Front View

Block Diagram

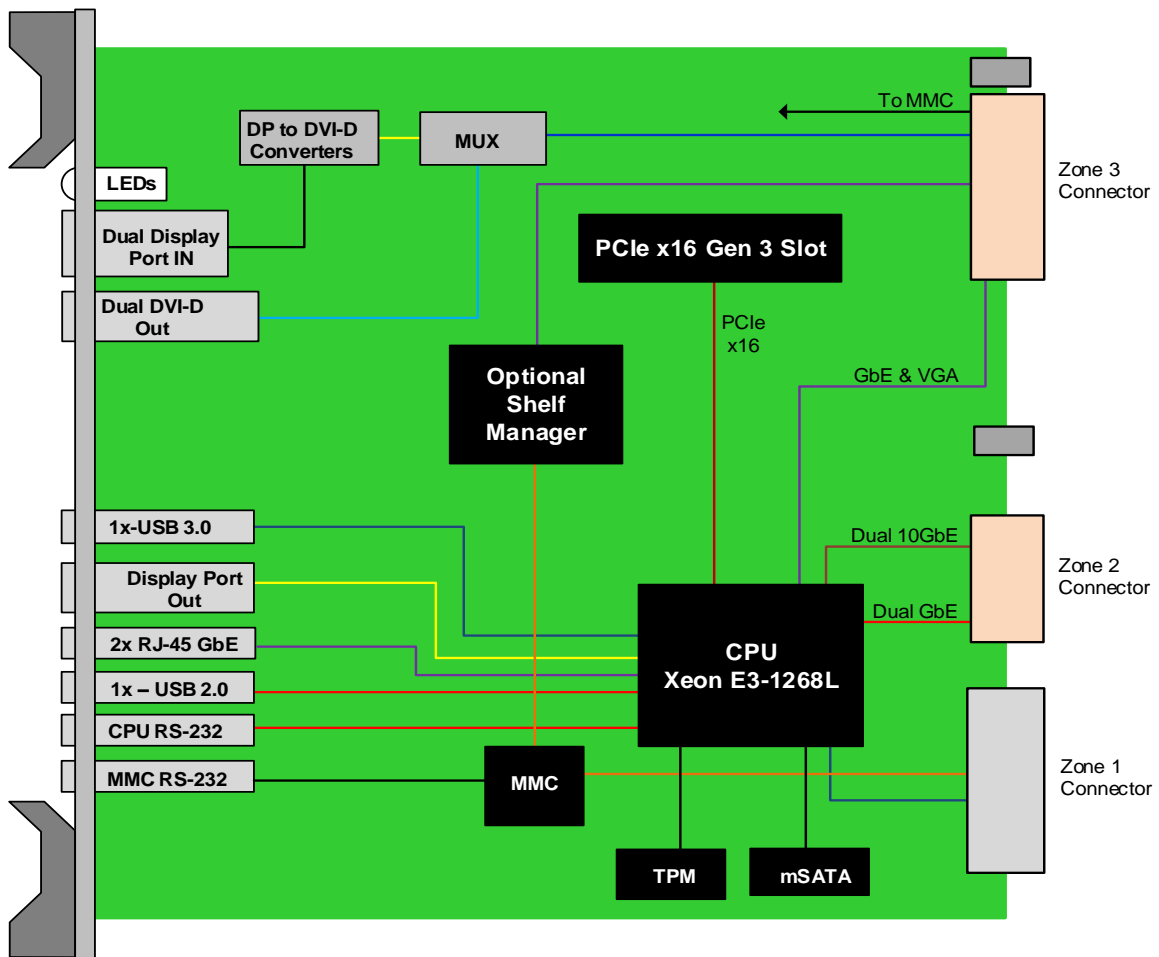


Figure 2: ATC121 Functional Block Diagram

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	ATC121	70 W without PCIe I/O module
Environmental	Temperature	See ordering options and environmental spec sheet Storage Temperature: -40° to +60°C
	Vibration	0.5 G RMS, 20 to 20000 Hz random (operating) 6 Gs RMS (non-operating)
	Shock	Operating 30 G on each axis
	Relative Humidity	5 to 95% non-condensing
Front Panel	Interface Connectors	1x USB 3.0 and 1x USB 2.0
		2x RJ-45 GbE
		1x LFH-59
		2x DP input and 1x DP output
	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

ATC121 – ABC-000-0HJ

A = On-Board Shelf Manager		
0 = No on-board shelf manager 1 = VT003 included		
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 = Installed		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Notes: *Please call VadaTech Sales for mSATA size

Related Products

VT830



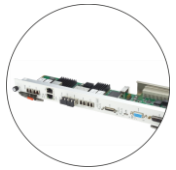
- 19" rackmount 6U ATCA Chassis with integrated Switch and Shelf Manager
- 10GbE/GbE Managed Layer 2
- 40GbE/10GbE/GbE Managed Layer 3

ATC806



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

ART121



- AdvancedTCA RTM for ATC121
- Layer 2 managed Ethernet switch
- USB Ports

Contact

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