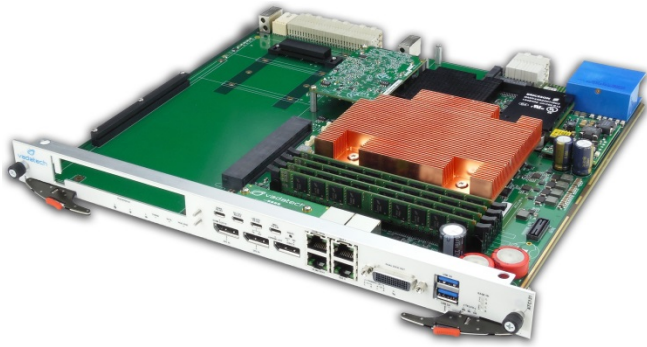


## PCIe Gen 3 ATCA Carrier with Low-Power Xeon E3 – ATC121

ATCA PCIe Gen 3 Carrier



### KEY FEATURES

- ATCA Processing Carrier with a standard PCIe edge Module
- Xeon E3-1268L V3 Processor with 32GB ECC
- Quad Core @ 2.3GHz 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
- IPMI v2.0 compliant
- TPM (Optional)
- RoHS compliant

**Advanced TCA®**

### Benefits of Choosing VadaTech

- 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 system supply from industry leader
- AS9100 and ISO9001 certified company

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 32GB 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.

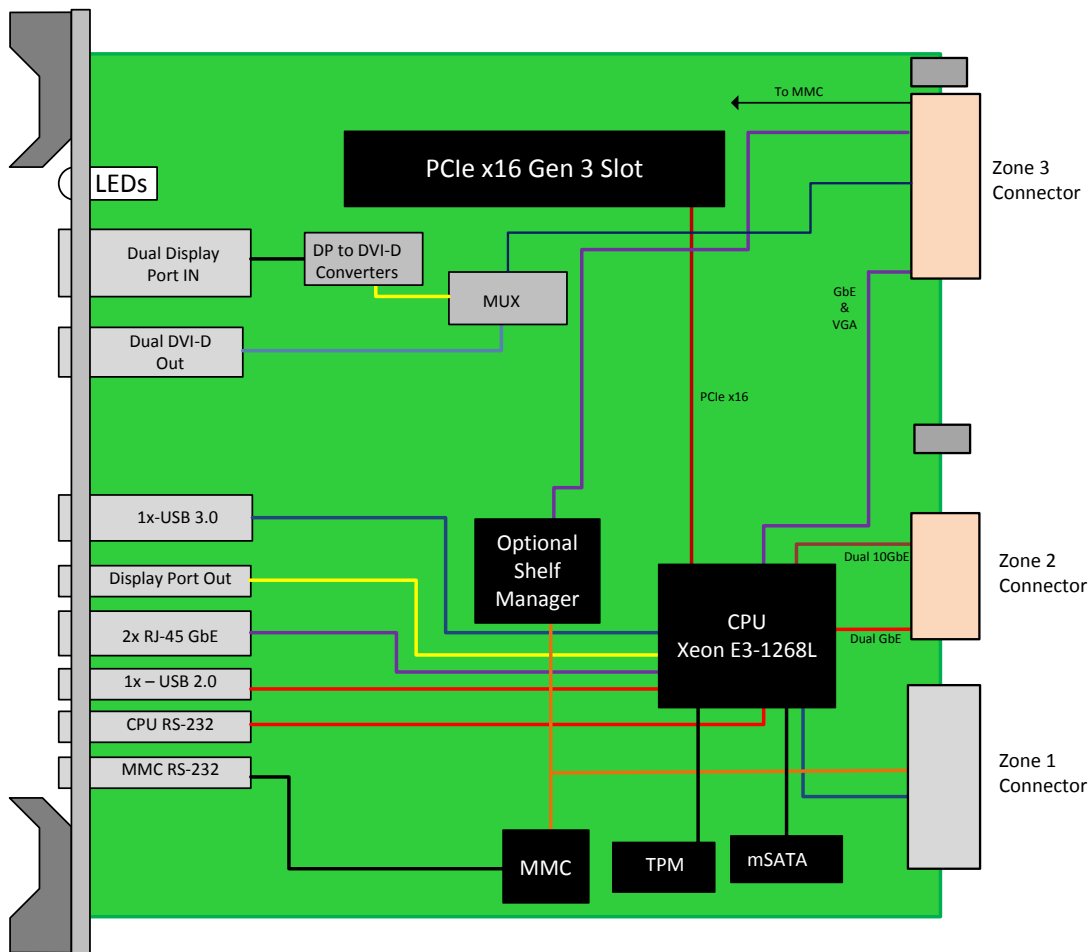
## SCORPIONWARE™ SOFTWARE

VadaTech's Scorpionware software can be used to access information about the current state of the Shelf or the Carrier, obtain information such as the FRU population, or monitor alarms, power management, current sensor values, and the overall health of the Shelf. The software GUI is very powerful, providing a Virtual Carrier and FRU construct for a simple, effective interface.

## INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and µTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), 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.

## BLOCK DIAGRAM



## SPECIFICATIONS

### Architecture

Physical	Dimensions	Width: 12.687" (322.25 mm)
		Depth: 11.024" (280 mm)
Type	ATCA Carrier	PCIe x16 standard edge

Standards		
<b>PCIe</b>	Type	x16 PCIe Gen3
<b>Module Management</b>	IPMI	IPMI version 2.0 and PICMG 3.0
<b>PICMG</b>	ATCA	PICMG 3.0 R2.0
Configuration		
<b>Power</b>	ATC121	70W without PCIe I/O module
<b>Environmental</b>	Temperature	Operating Temperature: -5° to 55°C (Air flow requirements is to be greater than 200 LFM) Available in industrial temperature range Storage Temperature: -40° to +60°C
	Vibration	0.5 G RMS, 20 to 20000 Hz random (operating) 6 Gs RMS (non-operating)
	Shock	30 Gs on each axis
	Relative Humidity	5 to 95 per cent, non-condensing
<b>Front Panel</b>	Front panel	1x USB 3.0 1x USB 2.0 2x RJ-45 GbE 1x LFH-59 2x DP input DP output 2x MicroUSB for RS-232 Status LED
<b>Software Support</b>	Operating System	Linux/Windows/VxWorks
<b>Conformal Coating</b>		Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional)
Other		
<b>MTFB</b>	MIL Handbook 217-F@TBD Hrs	
<b>Certifications</b>	Designed to meet FCC, CE and UL certifications where applicable	
<b>Compliance</b>	PICMG 3.0 Rev 3.0, RoHS 2.	
<b>Standards</b>	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards	
<b>Warranty</b>	Two (2) years	
<b>Trademarks and Disclaimer</b>	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice	

## ORDERING OPTIONS

### ATC121 – ABC – 000 – 0HJ

#### A = On-Board Shelf Manager

- 0 = None
- 1 = VT003 included

#### B = mSATA Size\*

- 0 = None
- 1 = Reserved
- 2 = Reserved
- 3 = Reserved
- 4 = Reserved

#### C = TPM

- 0 = None
- 1 = Installed

#### H = Temperature Range

- 0 = Commercial
- 1 = Industrial

#### J = Conformal Coating

- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic

\*Please call VadaTech Sales for mSATA size

## RELATED PRODUCTS



VT830 6U ATCA SlotSaver Chassis



ATC806 40G/10G Switch w/Dual AMCs

Coming soon

ART121 ATCA RTM for ATC121

## CONTACT US

#### VadaTech Corporate Office

198 N. Gibson Rd.  
Henderson, NV 89014  
Email: [info@vadatech.com](mailto:info@vadatech.com)  
Telephone: (702) 896-3337  
Fax: (702) 896-0332

#### Asia Pacific Sales Office

7th Floor, No. 2, Wenhui Street, Neihu District, Taipei  
City, Taiwan 11445  
Email: [info@vadatech.com](mailto:info@vadatech.com)  
Telephone: +886-2-2627-7655  
Fax: +886-2-2627-7792

#### VadaTech European Sales Office

Ocean Village Innovation Centre, Ocean Way,  
Ocean Village, Southampton, SO14 3JZ  
Email: [info@vadatech.com](mailto:info@vadatech.com)  
Telephone: +44 2380 381982  
Fax: +44 2380 381983