

ATC124

PCIe Gen 3 ATCA Carrier with Cascade Lake-SP

Key Features

- ATCA Processing Carrier with a standard PCIe edge Module
- Single socket Intel® Xeon® Platinum Processor Scalable Performance (SP)
- Multiple SKU support (i.e. 8256, 8253, 6238T, 6230T, 5220T, 5218T, 4209T, etc.)
- x16 standard PCIe Gen 3 slot
- Dual 100GbE to Fabric channels, Dual GbE to Base channels and Dual 10GbE to the front panel
- TPM (Optional)

Benefits

- Combined standard edge-type PCIe Gen 3 I/O with Intel® Xeon® Platinum Processor
- 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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Advanced TCA®



ATC124

The ATC124 is a Carrier Module with an on board x16 PCIe Gen3 slot to accept any standard PCIe edge type module. The module has dual 100GbE connected to the Fabric channels and dual GbE to the base channels. The Intel® Xeon® core includes up to 384 GB of DDR4 memory with ECC. It also has an option for Trusted Platform Management (TPM).

The front panel contains four USB 3.0, video, RS-232, and dual 10GbE.

The ATC124 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".

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	ATC124 ~200W without PCIe I/O module (CPU SKU dependent)
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 video 2x RJ-45 10GbE 2x Micro USB 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

ATC124 – ABC-DE0-0HJ

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)	D = Processor 0 = Reserved 1 = 8256 3.8 GHz, 4 cores 2 = 8253 2.2 GHz, 16 cores*** 3 = 6238T 1.9 GHz, 22 cores 4 = 6230T 2.1 GHz, 20 cores*** 5 = 5220T 1.9 GHz, 18 cores*** 6 = 5218T 2.1 GHz, 16 cores*** 7 = 4209T 2.2 GHz, 8 cores*** 8 = Reserved 9 = Reserved	
B = NVMe Size** 0 = No NVMe 1 = 1 TB 2 = 2 TB 3 = Reserved 4 = Reserved	E = DRAM 0 = 384 GB 1 = 192 GB 2 = 96 GB	H = Temperature Range 0 = Commercial (-5° to +55°C) 1 = Industrial (-20° to +70°C)
C = TPM 0 = No TPM 1 = TPM		J = Conformal Coating 0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Notes: *VadaTech recommends 2.4" for chassis that cannot cool the module.

**Please call VadaTech Sales for other NVMe size.

***Min order quantity please contact VadaTech Sales

Related Products

VT830



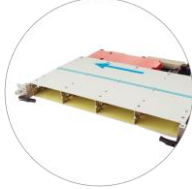
- 19" rackmount 6U ATCA Chassis with integrated Switch and Shelf Manager
- 10GbE/GbE Managed Layer 2
- 40GbE/10GbE/GbE Managed Layer 3

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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