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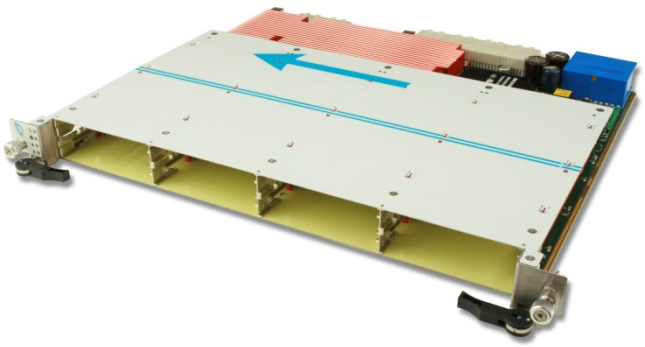
THE POWER OF VISION

10GbE ATCA Carrier with Quad Full-Size AMC Slots – ATC133

ATCA 10G Switch, 4 AMC



KEY FEATURES

- 10G ATCA Carrier
- Managed Layer 2 software
- Four full-size AMC slots
- Xilinx Virtex-7 FPGA (XC7V690T in FFG1761 package)
- Crossbar switch to connect FPGA to full mesh of backplane fabric
- 2x XAUI ports and 2x GbE ports for each AMC slot
- 4x XAUI ports for RTM expansion
- Utilizes VadaTech's proven IPMI Management Controller

AdvancedTCA®

Benefits of Choosing VadaTech

- 10G Managed Layer 2 switch performance with the versatility of 4 full-size AMC slots
- Quad 10GbE ports routed to RTM (Zone 3)
- 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

The ATC133 is an ATCA carrier that supports four full-size single module AMC slots (or two full-size double module slots). The Carrier has a 10GbE managed switch, a Xilinx V7 FPGA with a Cross Bar Switch (CBS) which mates directly to a full-mesh backplane. The CBS allows any combination of the backplane ports to be routed to the FPGA.

The on-board Power PC runs Linux operating systems which manage the 10GbE switch, loading of the FPGA image as well as the CBS. The carrier can provide over 280W to the AMC modules.

An RTM can be ordered separately, contact VadaTech for details.

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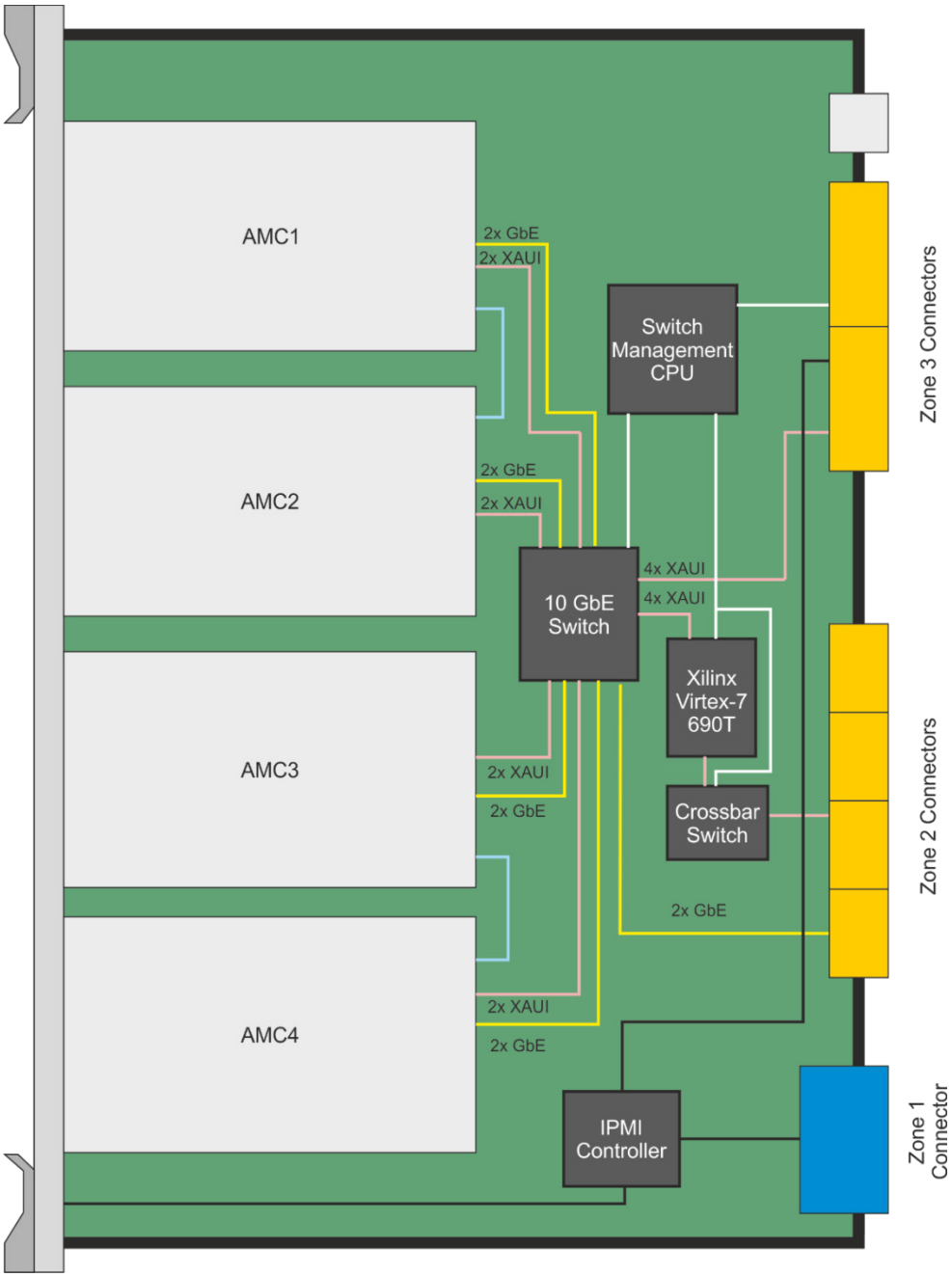
INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

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 in. (322.25mm)
		Depth: 11.024 in (280mm)
Type	ATCA Switch/Carrier	Four AMC slots in single module, full-size (or two double module, full-size)
Standards		
Module Management	IPMI	IPMI version 2.0 and PICMG 3.0
Processor Type	Power PC	For management
PICMG	ATCA	PICMG 3.0 R2.0
Configuration		
Power	Power consumption	50W (without the AMC Modules)
Environmental	Temperature	Operating Temperature: 0° to 65°C (Air flow requirements is to be greater than 200 LFM with no AMC) Available in industrial temperature range
		Storage Temperature: –40° to +90°C
	Vibration	1 G, 5 to 500 Hz on each axis
	Shock	30 Gs on each axis
	Relative Humidity	5 to 95 per cent, non-condensing
Front Panel	Interface Connectors	None
	LEDs	IPMI management control
	Ejector Handles	Hot swap with micro-switch
Software Support	Operating System	Linux
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)
Other		
MTFB	MIL Handbook 217-F@TBD Hrs	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Compliance	PICMG 3.0 Rev 3.0, RoHS 2.	
Standards	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards	
Warranty	Two (2) years	
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ORDERING OPTIONS

ATC133 – A00 – 000 – 0HJ

A = Module Size
0 = Quad Single modules
1 = Dual Double modules

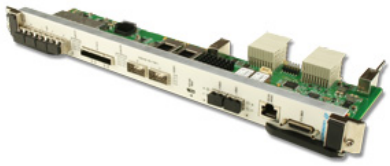
H = Temperature Range
0 = Commercial
1 = Industrial

J = Conformal Coating
0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

RELATED PRODUCTS

VT830 6U ATCA SlotSaver Shelf

ATC806 40G/10G Switch w/Dual AMCs



ART132 ATCA RTM

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