# ATC804

# ATCA 40GbE Switch with 100GbE Uplink



Key Features

- 40GbE ATCA switch compliant to PICMG 3.1 specifications
- Single switch for Base and Fabric Interfaces with VLAN separation
- Dual zQSFP+ (QSFP28) Ports for 100GbE/40GbE
- 16 of SFP+ Ports on the front panel
- 8 of 10/100/1000Base-T Ports via RJ-45
- Octal 10GbE/1GbE Ports to Zone-3
- Layer 3 Managed Switch software
- VadaTech's proven IPMI Management Controller

# **Benefits**

- 40/10GbE Managed Layer 3
- Dual 100GbE uplink to front panel
- 1.2 TBit Switch Fabric
- Full system supply from industry leader
- AS9100 and ISO9001 certified company



**40**G



vadatech

# ATC804

The ATC804 is ideal for broadband media servers or other applications requiring the versatility of a powerful 40GbE switch and provides 1.2 TBit throughput. The ATC804 has a single 1.2Tb switch which handles both the Base and the Fabric Channels. The Base and Fabric are separated by VLAN.

The Layer 3 managed 40GbE switch fabric routes 13 ports to each of the Fabric and Base Channels, two ports to the Update Channel, dual 100GbE ports to the front panel via zQSFP+ (QSFP28), 8 ports to the RTM, 16 ports to front-panel SFP+ and 8 ports to front panel RJ-45 (10/100/1000Base-T). Switch management software features include Spanning Tree (+ Rapid), VLANs, GMRP, GVRP, Port Authentication, IGMP/Snooping Proxy, and Multi-cast Listener Discovery, etc. Each Fabric port could be configured as a single 40GbE/10GbE or as four 10GbE.

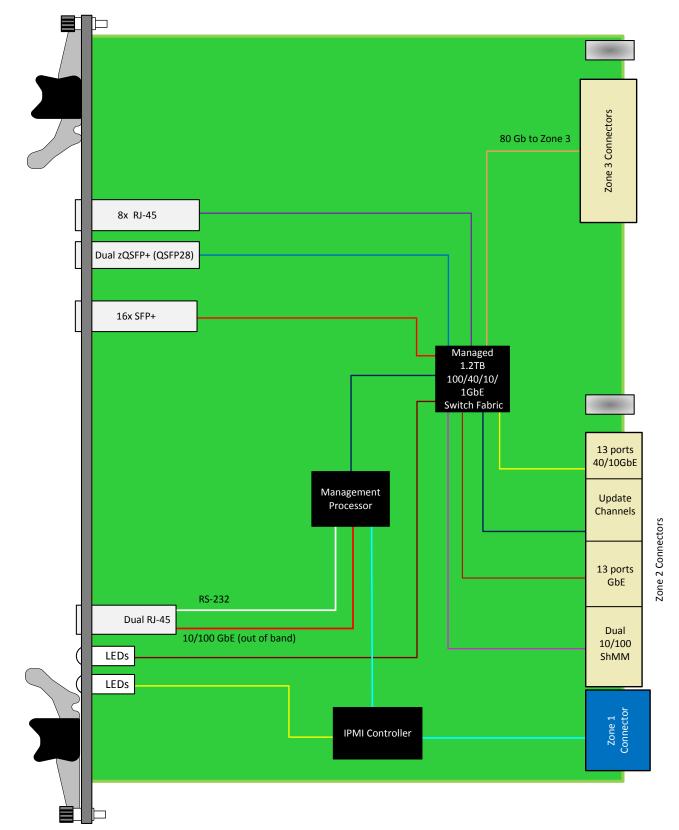
The ATC804 routes 80 Gb to Zone 3 which could divided between the combination of 10/1GbE ports. An RTM can be ordered separately to access the rear ports, contact VadaTech for details.



# Front Panel



# Block Diagram



# Specifications

Architecture		
Physical	Dimensions	Width: 12.69" (322.25 mm)
		Depth: 11.02" (280 mm)
Туре	ATCA Switch	Layer 3 Managed
Standards		
ATCA	Туре	PICMG 3.0 Revision 2.0
Module Management	IPMI	Version 2.0
Processor	ARM	For switch management
Configuration		
Power	ATC804	~95 W
Environmental	Temperature	Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and extended versions also available (See <u>environmental spec sheet</u> )
		Storage Temperature: -40° to +85°C
	Vibration	1G, 5 to 500 Hz on each axis
	Shock	30Gs on each axis
	Relative Humidity	5 to 95 per cent, non-condensing
Front Panel	Interface Connectors	8x RJ-45 for 10/100/1000Base-T
		16x SFP+ for 10/100/1000Base-T
		Dual zQSFP+ (QSFP28) for 100 GbE
		Dual RJ-45 for CPU RS-232 and Out of band
	LEDs	IPMI, Activity, Status and User defined
Software Support	Operating System	Linux
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)
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 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.

#### **Trademarks and Disclaimer**

The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA<sup>™</sup> and the AdvancedMC<sup>™</sup> logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

# **Ordering Options**

### ATC804 – ABC-000-0HJ

A = Switch Software Stack 0 = VadaTech	
B = Dual zQSFP+ (QSFP28) Transceiver *	H = Temperature Range
0 = None 1 = 40GbE SR 2 = 40GbE LR 3 = 40GbE WDM (single LC fibre) 4 = 100GbE SR 5 = 100GbE LR	0 = Commercial 1 = Industrial
C = 16 SFP+ Transceiver**	J = Conformal Coating
0 = None 1 = SR 2 = LR 3 = 10GbE Copper	0 = None 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

\* Two are included (for other combinations please contact VadaTech Sales)

\*\* 16 are included (for other combinations 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



- Per AMC.1 and AMC.2 specification
  - Single module, mid-size (full size option)
  - Cavium OCTEON CN67xx Multi-Core

## ATC133



- 10G ATCA Carrier
  - Managed Layer 2 software
  - Four full-size AMC slots

# Contact

### VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014 Phone: +1 702 896-3337 | Fax: +1 702 896-0332

#### Asia Pacific Sales Office

7 Floor, No. 2, Wenhu Street, Neihu District, Taipei 114, Taiwan Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

#### VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR Phone: +44 2380 016403

info@vadatech.com | www.vadatech.com

# **Choose VadaTech**

### We are technology leaders

- First-to-market silicon
- Constant innovation
- Open systems expertise

### We commit to our customers

- · Partnerships power innovation
- · Collaborative approach
- Mutual success

### We deliver complexity

- · Complete signal chain
- System management
- Configurable solutions

### We manufacture in-house

- Agile production
- · Accelerated deployment
- AS9100 accredited



#### **Trademarks and Disclaimer**

The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA<sup>™</sup> and the AdvancedMC<sup>™</sup> logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

© 2017 VadaTech Incorporated, All rights reserved. DOC NO. 4FM737-12 REV 01 | VERSION 1.1 – MAY/17

