

# ATC803

## 40GbE Switch with 100GbE Uplink ATCA



ATC803

## 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 100Gbit/40GbE
- 8 SFP+ Ports on the front panel
- 4 QSFP+ Ports on the front panel
- 8 10/100/1000Base-T Ports via RJ-45
- 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

**AdvancedTCA®**

**40G**



**vadatech**  
THE POWER OF VISION

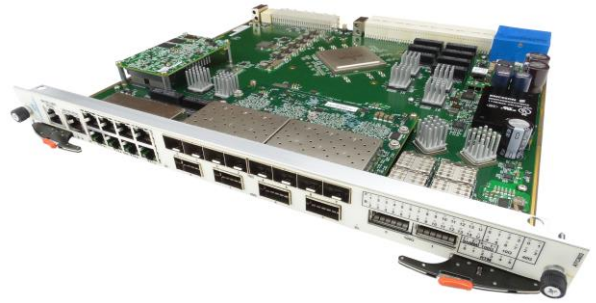


# ATC803

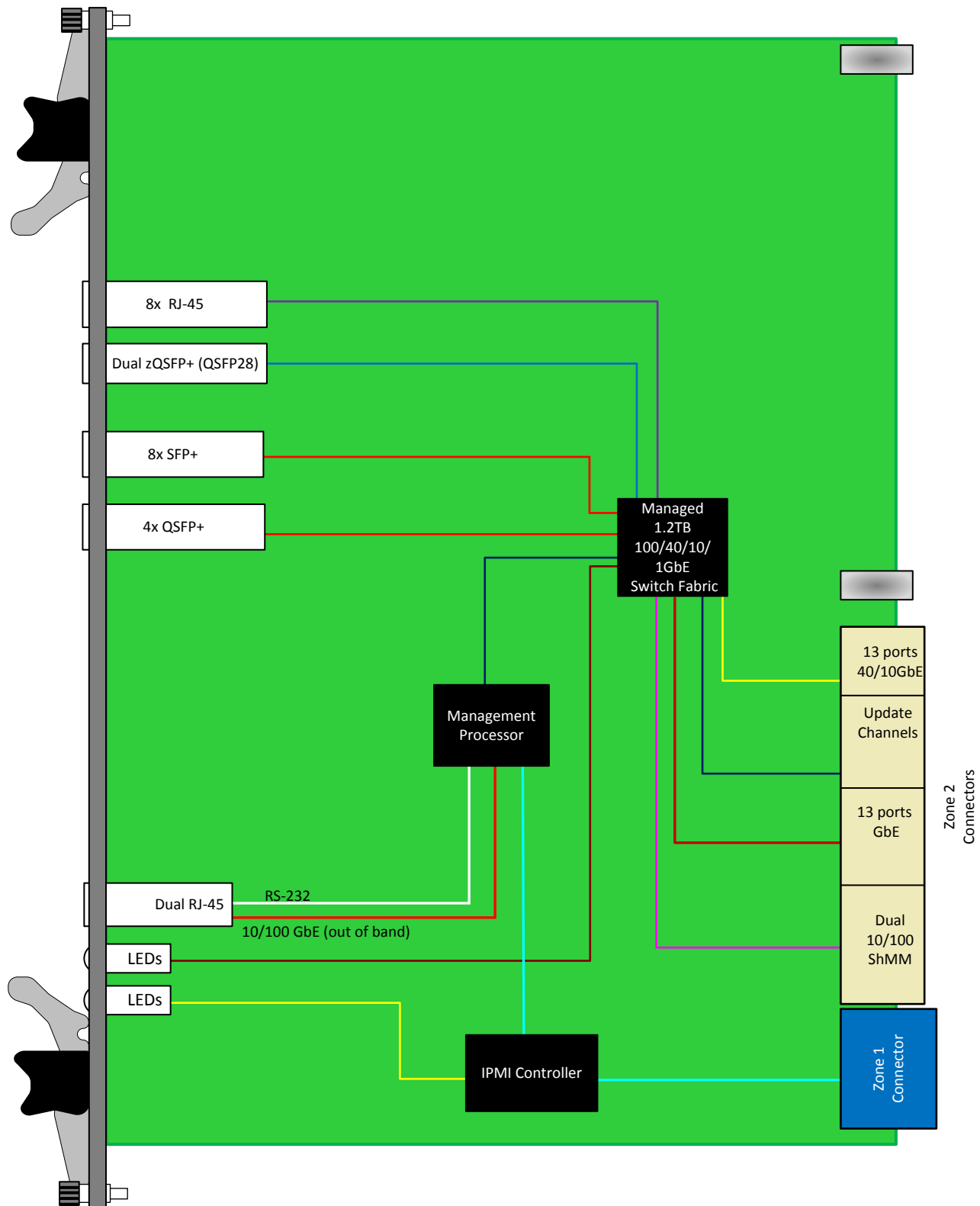
The ATC803 is ideal for broadband media servers or other applications requiring the versatility of a powerful 40GbE switch (1.2 Tbit throughput). The ATC803 has a single 1.2Tb switch which handles both the Base and the Fabric Channels. The Base and Fabric are separated by VLAN.

The Layer 3 managed 40GbE switch 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 SFP+, 4 QSFP+ and 8 ports to RJ-45 (10/100/1000Base-T).

The 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 four 10GbE.



# ATC803 Block Diagram



# Specifications

Architecture			
Physical	Dimensions	Width: 12.69" (322.25 mm)	
		Depth 11.02" (280 mm)	
Type	ATCA Switch	Layer three managed	
Standards			
Module Management	IPMI	IPMI version 2.0 and PICMG 3.0	
Processor	ARM	For management	
ATCA	PICMG	PICMG 3.0 R2.0	
Configuration			
Power	ATC803	~95 W	
Environmental	Temperature	Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and military versions also available (See <a href="#">environmental spec sheet</a> )	
		Storage Temperature: -40° to +85°C	
	Vibration	Operating 9.8 m/s² (1G), 5 to 500Hz on each axis	
	Shock	Operating 30s each axis	
	Relative Humidity	5 to 95 per cent, non-condensing	
Front Panel	Interface Connectors	8x RJ-45	
		2x zQSFP+ (QSFP28)	
		8x SFP+	
		4x QSFP+	
		2x RJ-45 for management RS-232 and Out of Band port	
	LEDs	IPMI management control	
		Activity / Link LEDs	
	Mechanical	Hot swap ejector handle	
	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™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

# Ordering Options

## ATC803 – ABC-D00-0HJ

A = Switch Software Stack	D = Quad QSFP+ Transceiver***	
0 = VadaTech	0 = None 1 = 40GbE SR 2 = 40GbE LR 3 = 40GbE WDM (single LC fiber)	
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 = 8 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)

\*\* 8 are included (for other combinations please contact VadaTech Sales)

\*\*\* 4 are included (for other combinations please contact VadaTech Sales)

## Related Products

VT830



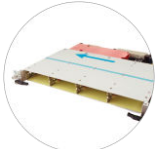
- 19" rackmount 6U ATCA Chassis with integrated Switch and Shelf Manager
- 10GbE/GbE Managed Layer 2
- 40GbE/10GbE/GbE Managed Layer 3

AMC735



- Cavium OCTEON CN67xx Multi-Core
- Core processors rom 8 to 16 and
- Speeds from 800 MHz to 1.5 GHz

ATC133



- 10G ATCA Carrier
- Managed Layer 2 software
- Xilinx Virtex-7 FPGA

# 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, Wenhui 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](mailto:info@vadatech.com) | [www.vadatech.com](http://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



**vadatech**  
THE POWER OF VISION

## Trademarks and Disclaimer

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.

© 2017 VadaTech Incorporated, All rights reserved.  
DOC NO. 4FM737-12 REV 01 | VERSION 2.0- NOV/17