ATC803 – ATCA 40GbE Switch with 100GbE Uplink

ATCA 100/40G/10G Switch

Photo Coming Soon

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
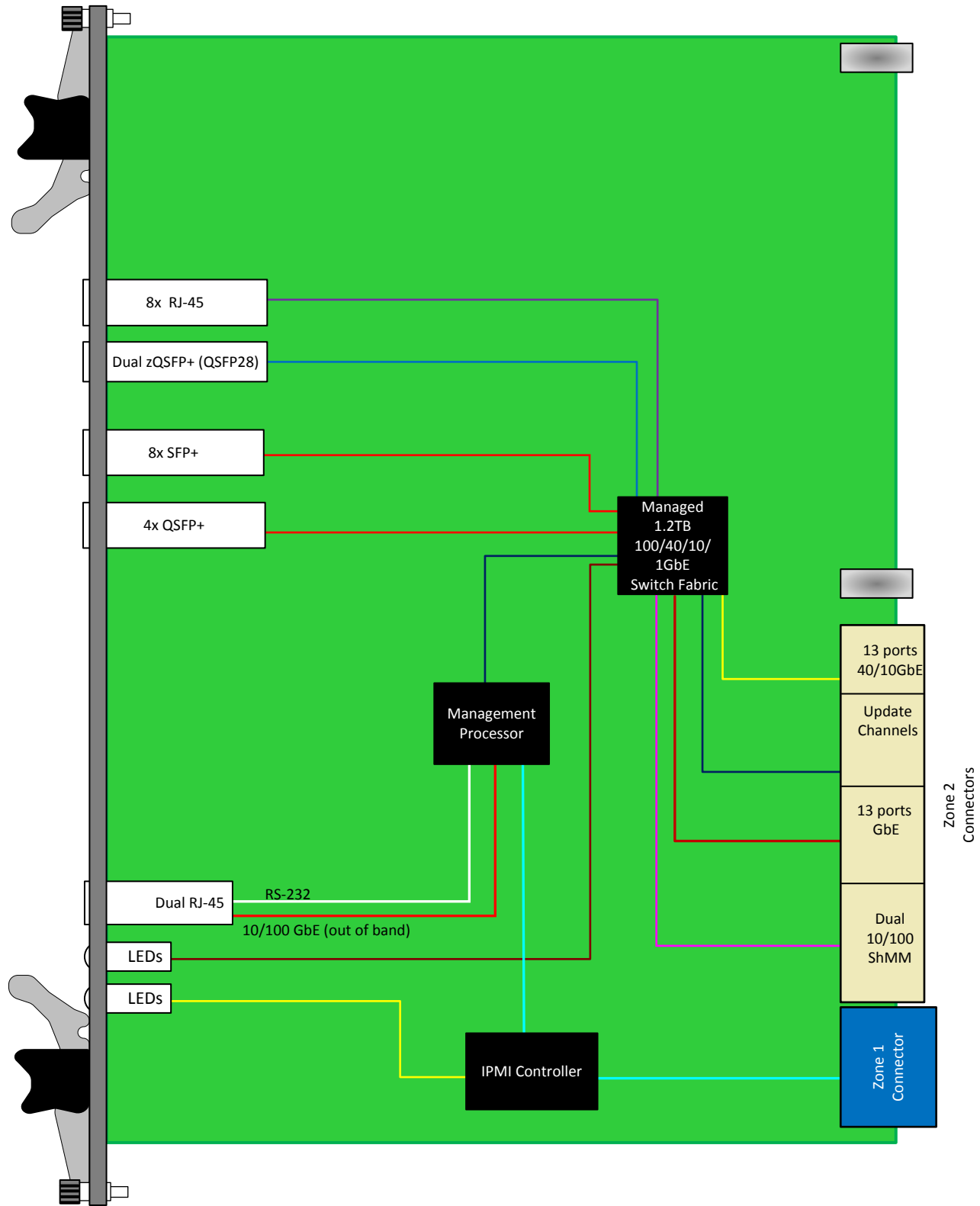- VadaTech's proven IPMI Management Controller

AdvancedTCA® 40G

Benefits of Choosing VadaTech

- 40/10GbE Managed Layer 3
- Dual 100GbE uplink to front panel
- 1.2 TBit Switch Fabric
- 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 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.

BLOCK DIAGRAM

8x RJ-45

Dual zQSFP+ (QSFP28)

8x SFP+

4x QSFP+

Managed 1.2TB 100/40/10/1GbE Switch Fabric

Management Processor

Dual RJ-45

RS-232

10/100 GbE (out of band)

LEDs

LEDs

IPMI Controller

13 ports 40/10GbE

Update Channels

13 ports GbE

Dual 10/100 ShMM

Zone 2 Connectors

Zone 1 Connector

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Version 1.0 – APR/17

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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 Type	ARM	For management
PICMG	ATCA	PICMG 3.0 R2.0
Configuration		
Power	Power consumption	~95W
Environmental	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 +85°C
	Vibration	1 G, 5 to 500 Hz on each axis
	Shock	30 G on each axis
	Relative Humidity	5 to 95 per cent, non-condensing
Front Panel	Interface Connectors	8x RJ-45
		Dual zQSFP+ (QSFP28)
		8x SFP+ and 4x QSFP+
		Dual RJ-45 for RS-232 management CPU and out of band port
	LEDs	Activity / Link
		IPMI
Software Support	Operating System	Linux
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)
Other		
MTBF	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	

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

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ORDERING OPTIONS

ATC803– ABC – D00 – 0HJ

A = Switch Software Stack
0 = VadaTech

B = Dual zQSFP+ (QSFP28) Transceiver *
0 = None
1 = 40GbE SR
2 = 40GbE LR
3 = 40GbE WDM (single LC fibre)
4 = 100GbE SR
5 = 100GbE LR

C = 8 SFP+ Transceiver**
0 = None
1 = SR
2 = LR
3 = 10GbE Copper

D = Quad QSFP+ Transceiver***
0 = None
1 = 40GbE SR
2 = 40GbE LR
3 = 40GbE WDM (single LC fiber)

H = Temperature Range
0 = Commercial
1 = Industrial

J = Conformal Coating
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)

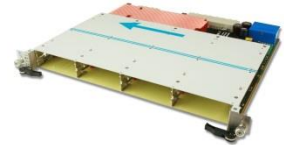## RELATED PRODUCTS

VT830 – 6U ATCA Shelf

AMC735 – 10GbE Network Interface card

ATC133 – 10G Switch/Carrier + FPGA

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