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

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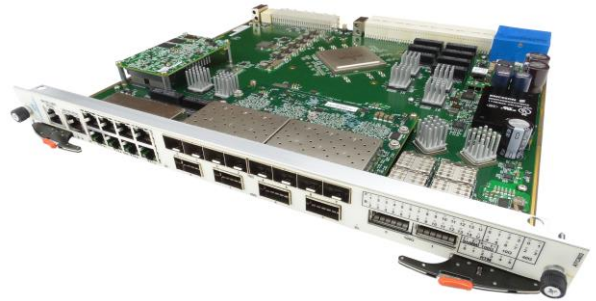
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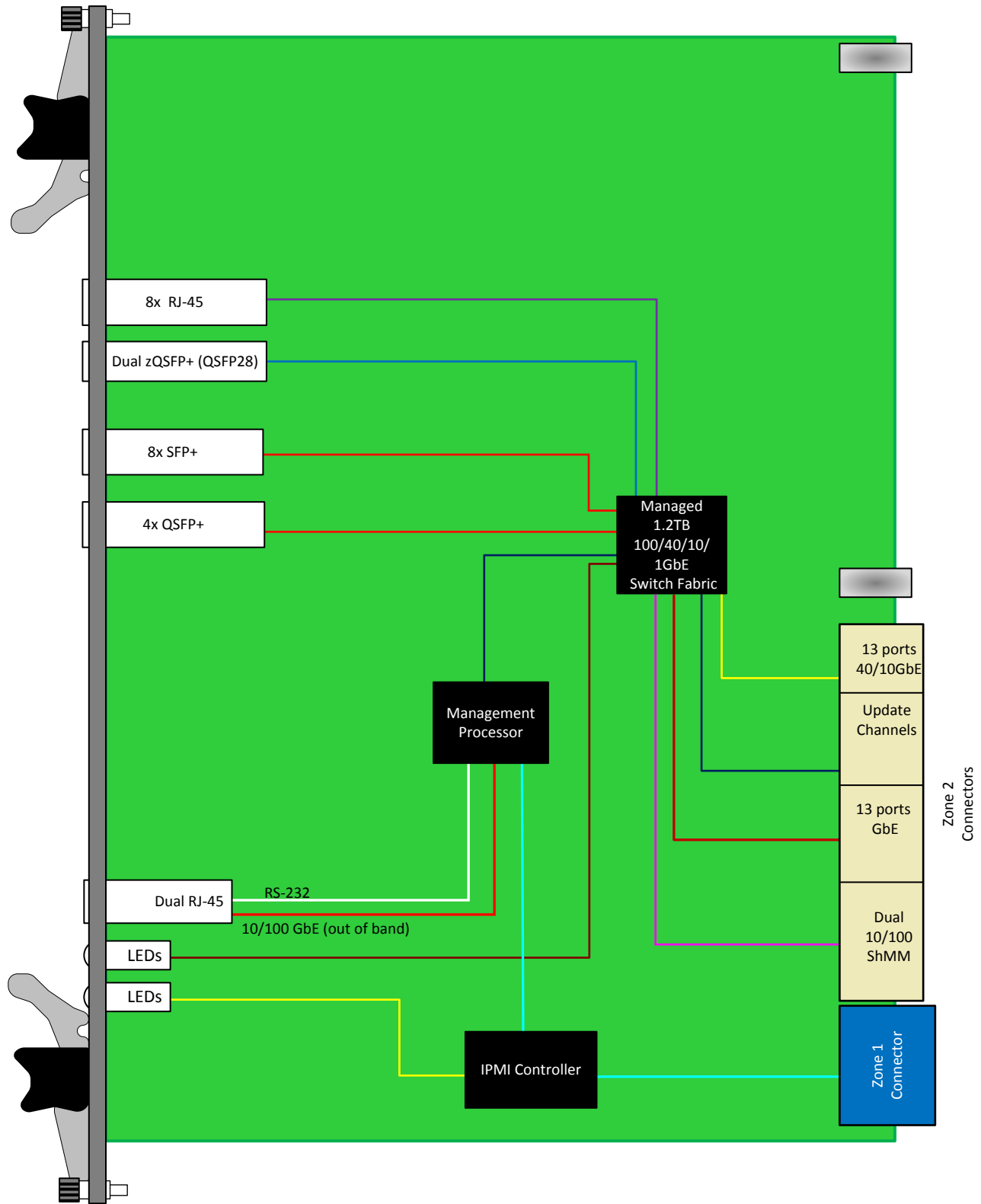

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The ATC803 is ideal for broadband media servers or other applications requiring the versatility of a powerful 40GbE switch (1.2 Tbit throughput). The ATC803 has a single 1.2Tb switch which handles both the Base and the Fabric Channels. The Base and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

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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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 environmental spec sheet)
		Storage Temperature: –40° to +85°C
	Vibration	Operating 9.8 m/s^2 (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.

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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)
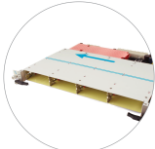
Related Products

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

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