ATC804

ATCA 40GbE Switch with 100GbE Uplink

ATC804

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 Tb Switch Fabric
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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40G

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ATC804

The ATC804 is ideal for broadband media servers or other applications requiring the versatility of a powerful 40GbE switch and provides 1.2 Tb throughput. The ATC804 has a single 1.2 Tb 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 80Gb 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.
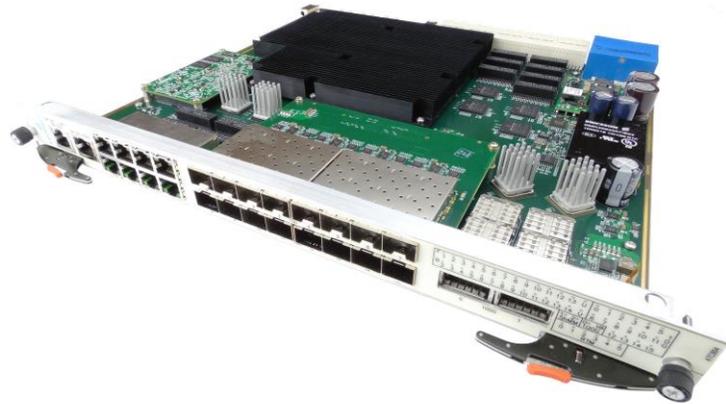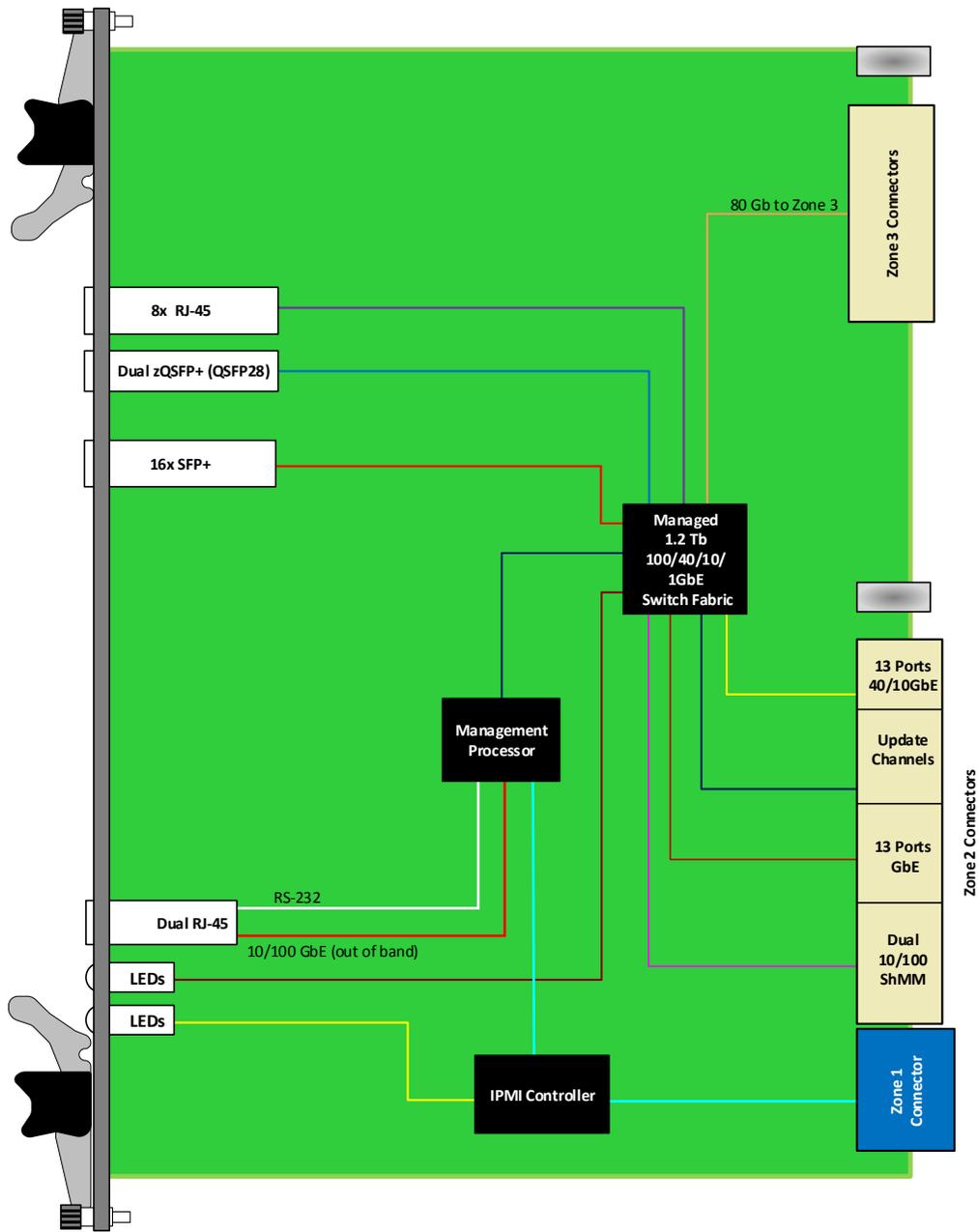

Figure 1: ATC804

Block Diagram

Figure 2: ATC804 Functional Block Diagram

Front Panel

Figure 3: ATC804 Front Panel

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Specifications

Architecture		
Physical	**Dimensions**	Width: 12.69" (322.25 mm)
		Depth: 11.02" (280 mm)
Type	**ATCA Switch**	Layer 3 Managed

Standards		
ATCA	**Type**	PICMG 3.0 Revision 2.0
Module Management	**IPMI**	v2.0
Processor	**ARM**	For switch management

Configuration		
Power	**ATC804**	~95W
Environmental	**Temperature**	See Ordering Options
		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% 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 100GbE
		Dual RJ-45 for CPU RS-232 and Out of band
	LEDs	IPMI, Activity, Status and User defined
Software Support	**Operating System**	Linux

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 ISO9001:2015 and AS9100D standards
Warranty	Two (2) years, see VadaTech Terms and Conditions

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), 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.

Ordering Options

ATC804 – ABC-000-0HJ

A = Switch Software Stack		
0 = VadaTech		

B = Dual zQSFP+ (QSFP28) TXCVR*		H = Temperature Range
0 = No TXCVR 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+ TXCVRs**		J = Conformal Coating
0 = No TXCVR 1 = SR 2 = LR 3 = 10GbE Copper 4 = 1GbE Copper		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Notes:

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

**16 are included (for other combinations please contact VadaTech Sales).
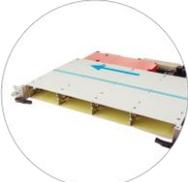
Related Products

VT830

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

AMC735

- 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

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