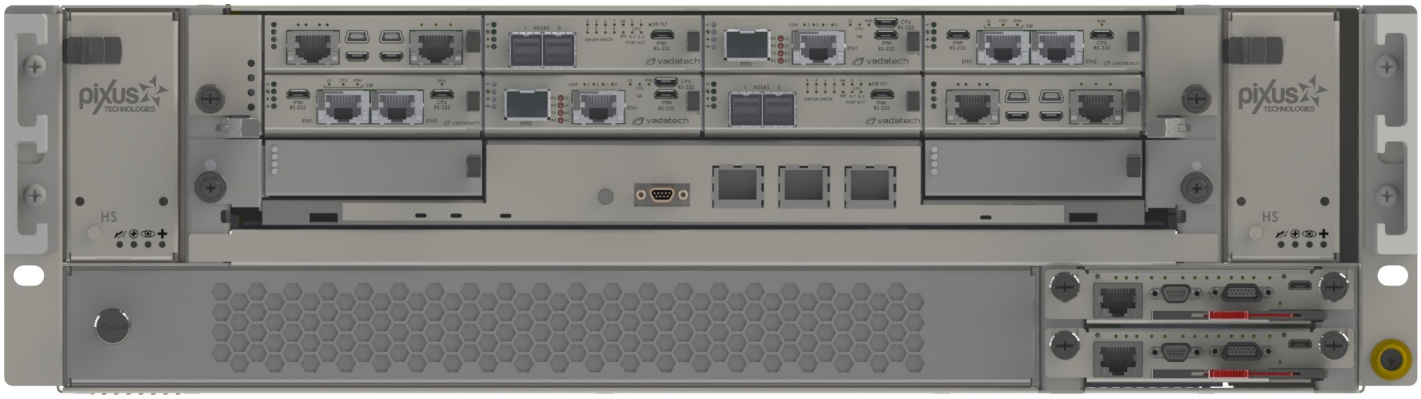
3U ATCA® Hybrid Shelf Supporting 8 AMCs

PXS0309 40G, 10G

Incredible Processing Power in a Small 3U Platform



PXS0309 KEY FEATURES

- 19" rackmount 3U ATCA Hybrid AMC Chassis
- 1 ATCA Slot and 8 mid-size AMC Slots
- 40G or 10G fabric across the Backplane
- 8x PCIe Gen 3, 4x Gen 2 SRIO, or Layer 2 / 3 managed 10GbE / 40GbE dual XAUI
- Redundant push / pull cooling configuration
- Integrated dual Shelf Managers, Switch and AMC Super-Carrier
- Full redundancy for all FRUs
- Redundant AC or DC Power Modules
- 2x ATCA RTM Slots
- ESD Buttons

The PXS0309 offers unprecedented performance density with 1 ATCA node Slot and 8 mid-size, single width AMCs in 3U height. Only 4 mid-size AMCs can fit on an ATCA carrier, but 8 mid-size AMCs can fit on the unique AMC Super-Carrier enabling 8 AMCs and 1 ATCA blade to fit in a 3U ATCA shelf. It is a very flexible and versatile platform because of the wide variety of AMC modules that can be utilized including processors, FPGAs, storage, graphics, and I/O. Double-width AMCs are also supported.

Up to 400W can be provided to the both slots, allowing the use of a high power processor ATCA blade and AMCs. Additional I/O is available through two RTMs. The PXS0309 has full redundancy support for all FRUs, including dual Shelf Managers.

Pixus Technologies can modify this product to meet special customer requirements without NRE (minimum order placement is required).

Pixus Technologies Inc. USA (631) 360-1257 Canada (519) 885-5775
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Power Supply

The PXS0309 is capable of supporting N+1 redundant power. Primary power can be AC, DC, or AC/DC redundant.

Cooling and Temp Sensors

The PXS0309 has intelligent Cooling Units. The cooling airflow is from right to left. The removable air filter has a switch to detect its presence and can be monitored for when it needs to be replaced.

There are temperature sensors in the Shelf that monitor the intake and the exhaust air temperature throughout the Shelf.

Shelf Input/Output

One RTM (Rear Transition Module) is available per Slot.

FRU Information

The PXS0309 has dual redundant FRU information storage devices.

CHASSIS CONFIGURATION

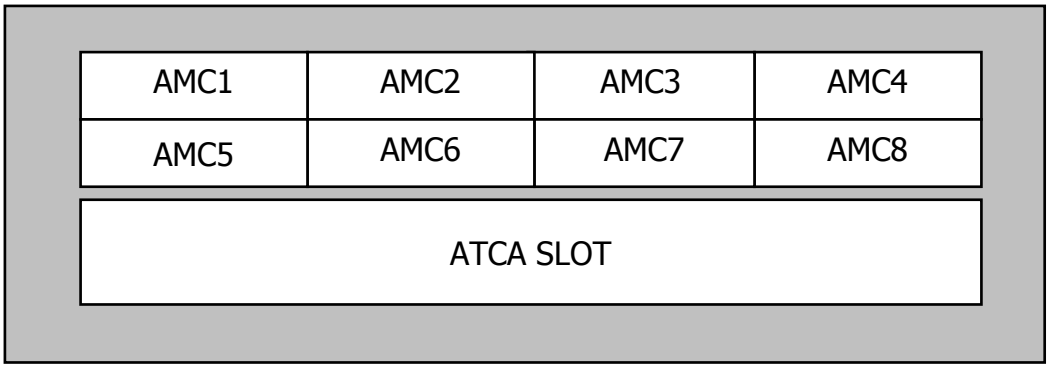
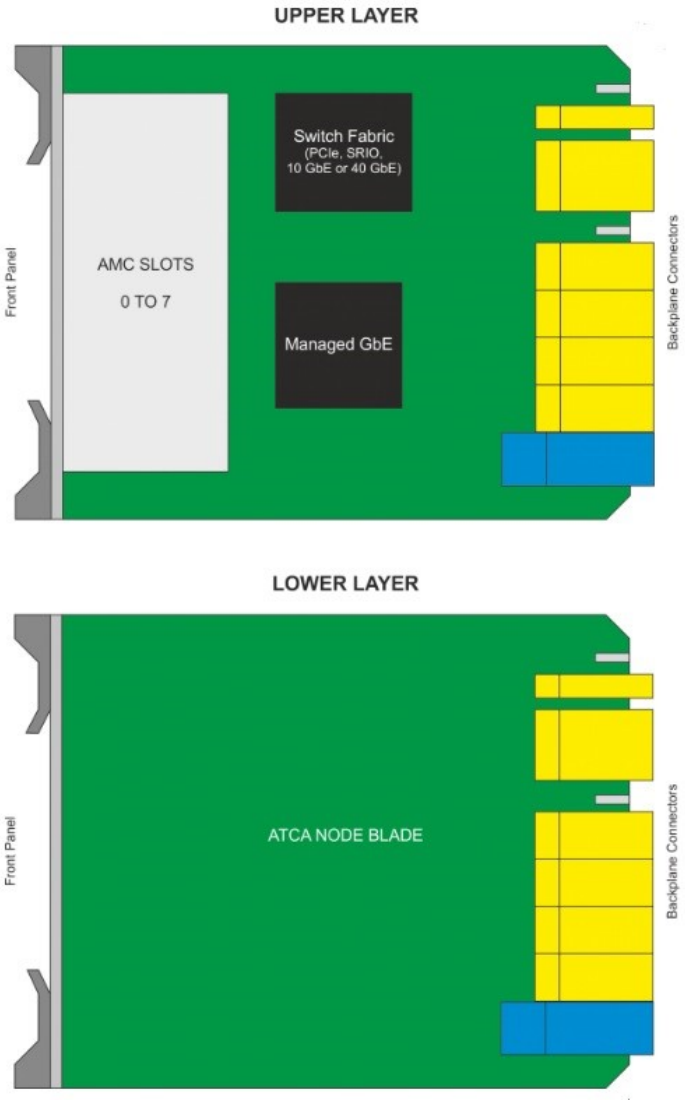


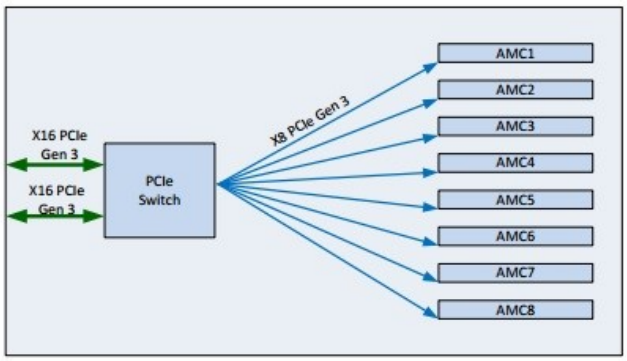
Figure 1: Front View

3U ATCA® Shelf Supporting 8 AMCs

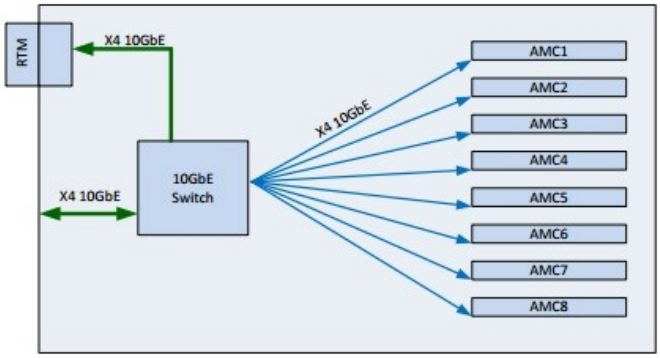
AMC Carrier & ATCA Slot



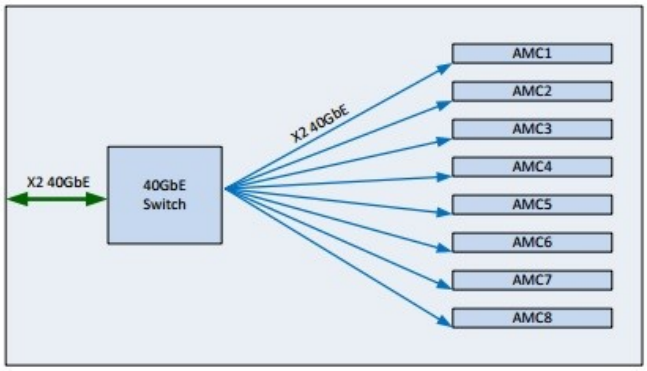
Switch Options



Option A



Option B



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Specifications

Architecture		
Physical	Dimensions	Height 3U
		Width: 19”
		Depth 13”
Type	ATCA Hybrid Chassis	1 ATCA node Slot, 8 mid-size AMC Slots
Standards		
AMC	Type	AMC.0, AMC.1, AMC.2, AMC3, and AMC.4
ATCA	Type	PICMG 3.0 Rev 3.0
Configuration		
Power	PXS0309	1000W, Universal AC or DC (-40V to –75V) input
Environmental	Temperature	Operating temperature: 0° to 55°C
		Storage temperature: -40° to +70°C
	Altitude	10,000ft operating
		40,000ft. non-operating
	Relative humidity	5 to 95 percent, non-condensing
Conformal coating		Upon request (See page 3, selection “J” for available options)
Other		
MTBF	MIL Handbook 217-F @ TBD Hrs.	
Certifications	Designed to meet FCC, CE and EN/UL/TUV certifications where applicable	
Compliance	RoHS and NEBS	
Warranty	Two years	
Trademarks and logos	The Pixus Logo is a registered trademark of Pixus Technologies Inc. other registered trademarks are the property of their respective owners. Specs. subject to change without notice.	

Ordering Options

PXS0309-ABC-000-0HJ

Not used

A = Power Supply

- 1 = AC input (non-redundant)
- 2 = AC input (redundant)
- 3 = DC input (non-redundant)
- 4 = DC input (redundant)
- 5 = AC + DC input

B = Shelf Managers

- 1 = Single
- 2 = Dual (redundant)

C = Carrier Fabric

- 0 = Reserved
- 1 = PCIe Gen 3 x8 for each AMC
- 2 = SRIO Gen 2 x4 for each AMC
- 3 = 10GbE Layer 2 managed dual XAUI
- 4 = 10GbE/40GbE Layer 3 managed (dual XAUI/KR)

H = Temperature Range

- 0 = Commercial
- 1 = Industrial

J = Conformal Coating

- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic

AdvancedTCA®
AdvancedMC®