

## 15U ATCA Vertical Shelf, 14-Slot

# PXS1540 40G, 10G



## Advanced TCA®

### PXS1540 KEY FEATURES

- ATCA System Platform compliant to PICMG 3.0 Rev 3.0
- 15U tall x 19" wide x 15" deep, RoHS compliant
- 40G or 10G Dual Star 14-Slot backplane
- Superior cooling configuration for airflow with empty Slots per NEBS
- NEBS-ready front-to-rear airflow, over 400W/Slot cooling performance
- 40G backplane based on design principles of IEEE 802.3ba-2010, 10GBASE-KR
- Full redundancy with dual Shelf Manager, quad cooling units and dual Hubs
- 2 x 100+100 Amp DC PEMs
- Front and rear ESD jacks
- AC power optional
- Rear IO options to 14 Slots

The PXS1540 is a Telco-grade ATCA Shelf ideal for Telecom, Enterprise, Industrial and Defense environments. Enhanced ruggedization options are available for Defense applications. Pixus Technologies leverages over 20 years of superior cooling and backplane innovation with proven Kaparel/Rittal base platforms.

The PXS1540 is based on a proven design with over 15,000 global installs. The Shelf has powerful RiCool IV blowers in an air plenum over the card cage, providing over 942 CFM. If one of the four blowers are removed, the airflow within the plenum follows the path of least resistance, keeping the static pressure low. This is a critical feature to support the NEBS requirements for fan failure/removal.

The 14-Slot backplane is designed to meet 40G ATCA requirements per 40GBASE-KR requirements. 10G backplanes are optional.

The PXS1540 has full redundancy of all FRUs, including PEMs, cooling units, Shelf Managers and Hubs for High Availability.

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

## Specifications

Architecture		
Physical	Dimensions	Height 15U
		Width: 19"
		Depth 15" without the handles and 17" with handles
Type	ATCA Shelf	14 ATCA Slots — 2 Hub Slots, 12 Node Slots
Standards		
PICMG	Type	PICMG 3.0 Rev 3.0
Configuration		
Power	PXS1540	7200W DC
		2x 100+100A PEMS
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 6 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

**PXS1540-AOC-D-OOJ** Not used

### A = Power Supply

- 0 = None
- 1 = 100+100 Amp DC — 2x
- 2 = 100 Amp DC — 2x
- 3 = AC (90– 230V) — 4x

### C = Backplane

- 1 = Dual Star, 40G, 14-slot
- 2 = Dual Star, 10G, 14-slot

### D = Shelf Management

- 1 = Vadatech VT003 Shelf Manager— x1
- 2 = Vadatech VT003 Shelf Manager — x2
- 3 = Reserved
- 4 = Reserved
- 5 = Pigeon Point 700 Shelf Manager — x1
- 6 = Pigeon Point 700 Shelf Manager — x2
- 7 = Other Shelf Manager (s)

### J = Conformal Coating

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

**Advanced TCA<sup>®</sup>**

Feb 2016—Rev 3.0