

13U ATCA Vertical Shelf, 14-Slot

PXS1340 40G, 10G



Carrier Grade Shelf Design-Proven with Thousands Deployed



AdvancedTCA®

PXS1340 KEY FEATURES

- ATCA® System Platform compliant to PICMG 3.0 Rev 3.0
- 13U tall x 19" wide x 15" deep
- 40G or 10G Dual Star 14-Slot Backplane
- Superior cooling configuration for airflow with empty Slots per NEBS
- NEBS-ready front-to-rear airflow, testing confirms over 270W/Slot cooling performance
- 40G Backplane based on design principles of IEEE 40GBASE-KR4 signaling
- Patented EMC mat contains emissions while directing airflow
- Full redundancy with dual shelf manager, quad cooling units, dual Hubs and dual power modules
- 2 x 50+50 Amp DC PEMs
- Front and rear ESD jacks
- AC power optional
- Rear IO options to 14 Slots
- RoHS compliant

The PXS1340 is a carrier grade AdvancedTCA Shelf ideal for telecom, enterprise, and defense environments. Enhanced ruggedization options are available for defense applications. The PXS1340 leverages over 20 years of superior cooling, backplane, and packaging innovation with proven Pixus and Rittal base technologies.

There are over 15,000 of these 10Kr-based systems deployed worldwide. The Shelf has powerful blowers above an air plenum over the card cage. 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 has been independently tested to ensure that it meets 40G ATCA requirements per the PICMG 3.1 R2.0 specification. 10G Backplanes are also available.

The PXS1340 has full redundancy of all FRUs, including power modules, cooling units, shelf managers, and Hubs for High Availability. Pixus is ISO9001:2008 and ITAR registered.

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

Specifications

Architecture		
Physical	Dimensions	Height 13U
		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	PXS1340	4000W DC
		2x 50+50A 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 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

PXS1340-AOC-D-OOJ Not used

A = Power Supply

- 0 = None
- 1 = 50+50 Amp DC — 2x
- 2 = 50 Amp DC — 2x
- 3 = AC (90– 230V) — 4x
- 4 = 100 Amp DC — 2x

C = Backplane

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

D = Shelf Management

- 0 = None
- 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 = Pixus Shelf Manager — x1
- 8 = Pixus Shelf Manager — x2

J = Conformal Coating

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

Advanced TCA[®]