

## PXS0640



**Advanced TCA®**

### PXS0640 KEY FEATURES

- ATCA System Platform conforms to the PICMG 3.0 specification, Rev 3.0
- 6U tall x 19" wide x 13" deep
- 40GBASE-KR4 dual-star, with option to add a full mesh, and option to add a replicated mesh on the node slots
- Full redundancy with dual Shelf Managers, Cooling Units, and switches and up to 4 AC power supplies or 2 DC Power Modules
- AC - Rear power supply modules, 4x1100W
- DC - Rear 2 x 70 Amp PEM
- Redundant FRU information stores
- Telco Alarm with Micro DB15 interface
- Front and rear ESD Jack
- 6 Rear Transition Module (RTM) Slots
- Designed to meet NEBS
- RoHS Compliant

The PXS0640 is a 6U ATCA Shelf that provides 6 Node Slots. It is ideal for Telecom, Enterprise, Industrial, and Defense environments.

The PXS0640 integrates the Shelf Manager (ShMM) and Hubs into a Horizontal ATCA Shelf Manager and Switch (HASS). The HASS saves the two Slots that are usually dedicated Hub Slots in the ATCA Shelf. The two extra Slots are utilized as standard Node Slots.

The PXS0640 is capable of having redundant Power Modules, Cooling Units, and HASSs (Shelf Managers and Switches) for high availability. It has a Telco Alarm as well as Redundant FRU information storage devices.

With push-pull, hot-swap, redundant fan trays, the PXS0640 provides 375W of cooling per Slot. The airflow is right-to-left.

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

## Power supply

The PXS0640 has an option for 4X 1100W AC power supplies and/or 2X 70 Amp DC Power Entry Modules. The input voltage is from 110-240VAC, 47-63HZ or DC -40.5V to -72V. The Shelf operates with either AC or DC supply inputs, or both concurrently.

## Cooling and Temp Sensors

The PXS0640 has dual intelligent cooling units. This redundancy allows fail-safe operation in case one of the cooling units becomes non-operational. The cooling airflow is from side to side, 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 a total of 4 temperature sensors in the Shelf that monitor the intake air temperature throughout the Shelf.

## Telco Alarm

The PXS0640 provides Telco Alarm functionality to alert any anomaly within the Shelf. The Telco Alarm is provided via a micro DB-9 as well as LED's at the front to show any anomaly.

## FRU Information

The PXS0640 has dual redundant FRU information storage devices.

## HASS Horizontal AdvancedTCA Shelf manager and Switch

The PXS0640 6U Shelf combines the Shelf management Slots with GbE/10GbE/40GbE switches into the HASS. By alleviating the need for two Hub slots, 50% more payload Slots are available in the same form factor. The HASS supports:

- 40GbE/10GbE Managed Layer 3 Switch
- GbE Managed Layer 3 Switch
- Vadatech VT003 ShMM

## SPECIFICATIONS

<b>Architecture</b>		
		Height 6U
Physical	Dimensions	Width: 19"
		Depth 13" without the handles and 15" with the handles
Type	ATCA Chassis	6 ATCA Node Slots
<b>Standards</b>		
PICMG	Type	PICMG 3.0 Rev 3.0
<b>Configuration</b>		
Power	PXS0640	3300W (N+1) or 2200W (redundant) and 2800W DC (redundant)
		110-240AC with frequency from 47-63Hz and DC -36V to -72V
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		Humiseal 1A33 Polyurethane
		Humiseal 1B31 Acrylic
<b>Other</b>		
MTBF	MIL Handbook 217-F@ TBD Hrs.	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Standards	ISO9001:2000 and AS9100B:2004 standards	
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

