

PXS01R6 Rugged MicroTCA 6 Slots



PXS01R6 KEY FEATURES

- μ TCA[®] System Platform based on the PICMG[®] MicroTCA.0 R1.0 specification
- Designed to meet MIL-STD-901D and 810G for shock and vibration
- Designed to meet MIL-STD-461 for EMI
- RoHS compliant
- AMCs are hot swappable
- Front-to-rear cooling configuration standard
- Up to 6 AMCs (Mid-height) in a 1U chassis
- Redundant PSU options available

The PXS01R6 is a versatile MicroTCA[®] chassis ideal for rugged embedded applications including transportation and defense applications.

The PXS01R6 has AMC slots plugging from both the front and the rear of the enclosure for maximum density. For front panel retention, there is a single MicroTCA.1 screw on the opposite side of the ejector handle on each module slot. There are also options for a 3rd generation MCH shelf manager, crossbar clocking for low jitter, GPS/IEEE1588/SyncE/NTP, etc.

The chassis has PCIe Gen3 dual x4 or single x8 routed to each AMC slot standard, with custom routing options available. There are also dual SFF-8644 ports for x8 PCIe Gen3 expansion.

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

Power

The PXS01R6 provides for a maximum of 500W redundant power AC or DC single or dual 460W, DC -36V to -75V or +18V. to +36V .

Slot Configuration

Below is the standard slot configuration for the PXS01R6 chassis platform.



Specifications

Architecture		
Physical	Dimensions	Height 1U (1.75")
		Width: 19"
		Depth 21.5"
Type	μ TCA Shelf	6 AMCs
Standards		
PICMG	Type	MicroTCA.0 R1.0
Configuration		
Power	Type	Single or dual 500W AC
		Single or dual 460W DC, -36V to -75V or +18V to +36V
		Dual redundant or non-redundant
Environmental	Temperature	Operating temperature: -5° to +70°C standard (consult Pixus for other options)
		Storage temperature: -40° to +85°C
	Altitude	10,000ft operating
		40,000ft. non-operating
Relative humidity	5 to 95 percent, non-condensing	
Conformal coating		Upon request (See page 4 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	
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

PXS01R6-0BC-DEF-00J Not used

B = Power

- 1 = DC Redundant
- 2 = AC Redundant
- 3 = DC Non-Redundant
- 4 = AC Non-Redundant
- 5 = AC/DC Redundant

C = CLK3

- 1 = Non-redundant (Telco)
- 2 = Non-redundant (Fabric CLK)
- 3 = Redundant

D = Ports 2 and 3

- 1 = To MCH
- 2 = Direct Connection

E = Clock Holdover Stability

- 1 = Standard (XO)
- 2 = Stratum-3 (TCXO)

F = Backplane Fabric

- 1 = x8 PCIe (Ports 4-11)
- 2 = x8 GbE (Ports 4-11)
- 3 = x4 PCIe (Ports 4-7), x4 GbE (Ports 8-11)
- 4 = dual x4 PCIe (Ports 4-11)
- 5 = Other

J= Conformal Coating

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

