piXus TECHNOLOGIES

PXS0207 MicroTCA

µTCA®

PXS0207 KEY FEATURES

- µTCA® System Platform based on the PICMG® MicroTCA.0 R1.0 specification
- 19" x 2U x 24.6" deep with cavity for specialty devices
- Recessed card cage protects boards and cables inside the enclosure
- Cabling channel to route wiring to the rear of the chassis
- RoHS compliant
- Redundant or non-redundant backplane configurations available
- AMCs are hot swappable
- In redundant configuration, MCH have fail-over support and are hot swappable
- Maximum 1000W redundant or non-redundant power
- Rear access panel is standard
- Support for cabinet slide rails
- Five full-size (6HP) AMC slots, two 8HP AMC slots, one full-size MCH slot standard, all AMC slots allow mid or compact size and filler panels are added
- Option to add more slots or change configuration with new backplane

The PXS0207 is a versatile MicroTCA® chassis ideal for a wide range of embedded applications including industrial and defense applications. Enhanced ruggedization options are available for defense applications.

The PXS0207 is an extra deep MicroTCA chassis with a cavity for mounting various devices, including RF modules. The chassis has configuration options that allow redundant power supplies, backplane topologies and FRU information devices. With a recessed card cage, the AMC boards and cabling are protected inside the enclosure.

All of the 8HP and 6HP (Full Size) slots are adjustable to allow for smaller modules, including mid-size and compact AMCs. Filler panels are optionally included.

The pluggable Power Module slots are located in the rear of the chassis and cable over to the rear panel. Single or dual redundant power options are available. There are 5 fans on each side of the card cage in a push-pull configuration.

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

Image of Recessed Card Cage Area— Example
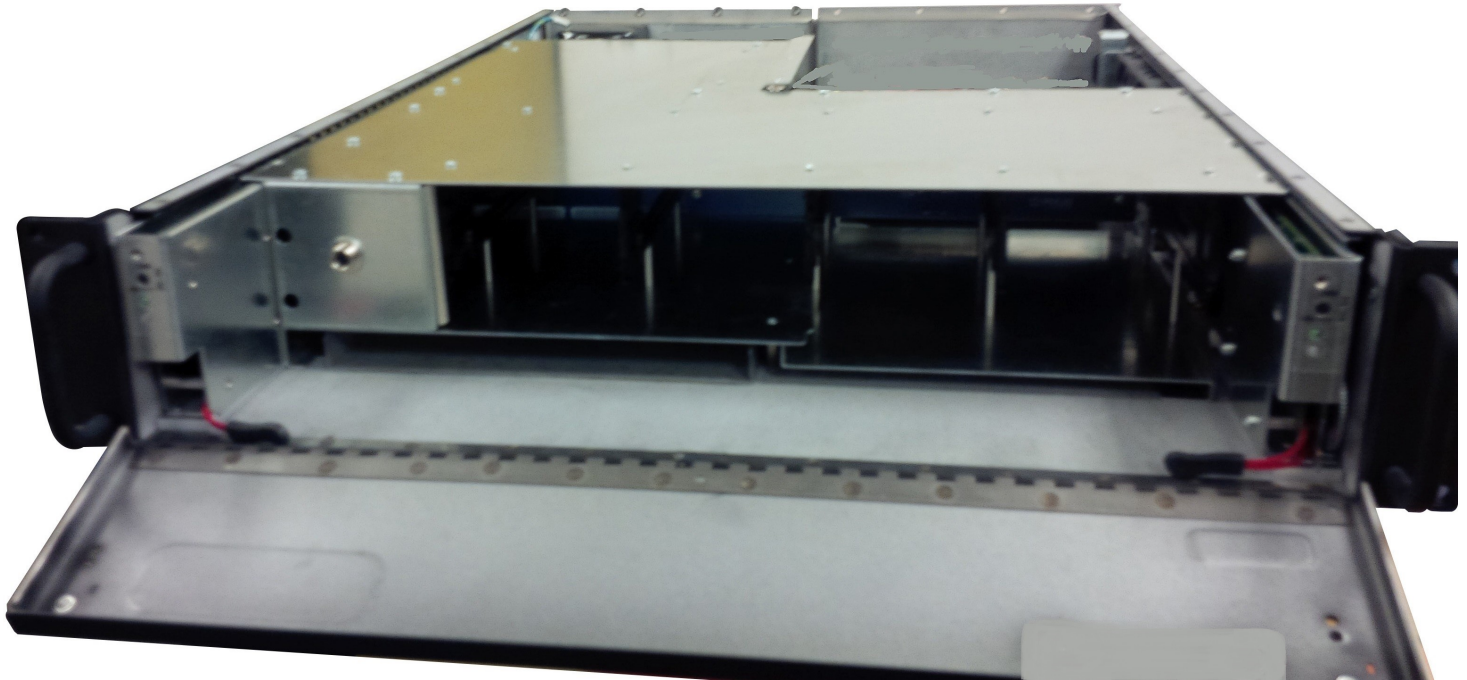
The PXS0207 has the card cage recessed to protect the AMCs and front cabling inside the enclosure.   The left side of the card cage is raised slightly to allow for cabling to be channeled to the rear of the enclosure.
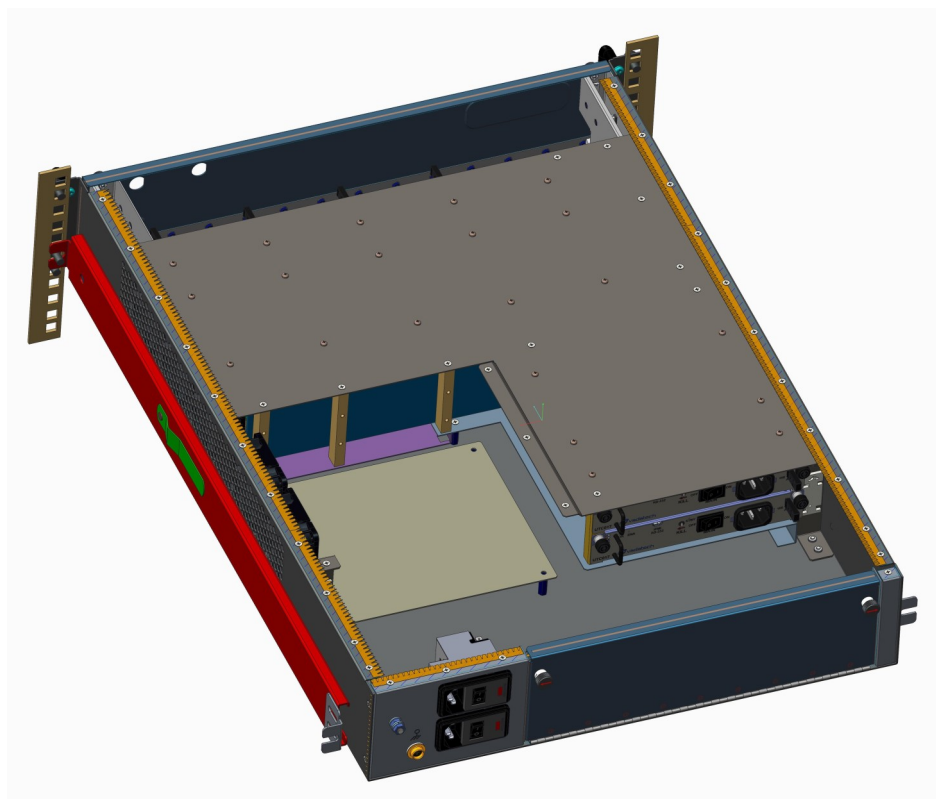
Power

The PXS0207 provides for up to dual AC or DC Power Modules to be plugged in the rear of the enclosures. Various Power Modules can be incorporated with versions up to 1000W AC.

Cooling

The PXS0207 has hot swappable fan trays located on the sides of the card cage in a push-pull configuration. Each tray holds 5 fans. Airflow is from right to left.

Image of Rear Cavity—Example

Specifications

Architecture		
Physical	Dimensions	Height 2U (3.50")
		Width: 19"
		Depth 24.60" (625mm, 650mm with handles)
Type	uTCA Shelf	1 MCH + 5 Full-size and two 8HP AMCs standard
Standards		
PICMG	Type	MicroTCA.0 R1.0
Configuration		
Power	PXS0207-X1	796W DC (36V—72V) 13 Amps Maximum
	PXS0207-X2	1000W AC (90V—264V) 6 Amps Maximum
		Dual redundant or non-redundant
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 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

Not used

PXS0207-0BC-DEFG-H0J

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 = AMC Sizes

    1 = 5 full-size and two 8HP AMC slots (Standard)
    2 = Other

F = MCH Options

    1 = Single MCH (Standard, 7 AMC available)
    2 = Dual redundant

G = Backplane Fabric

    1 = x8 PCIe Gen3 (Ports 4-11)
    2 = x8 10GbE (Ports 4-11)
    3 = x4 PCIe Gen3 (Ports 4-7), x4 40GbE (Ports 8-11)
    4 = x8 40GbE (Ports 4-11)
    5 = Other

H = Slot Configuration

    1 = 7 AMC + 1 MCH slots (standard)
    2 = Other

J= Conformal Coating

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

µTCA®