

MTCA500 12-Slot MicroTCA



μ TCA[®]

MTCA500 KEY FEATURES

- μ TCA[®] System Platform based on the PICMG[®] MicroTCA.0 R1.0 specification
- 19" x 5U x 9" deep
- RoHS compliant
- Redundant or non-redundant backplane configurations available
- AMCs are hot swappable
- In redundant configuration, MCH fail-over support and MCHs are hot swappable
- Superior cooling configuration for airflow with a push-pull, front-to-rear configuration
- PSU up to 1000W, redundant PSU options
- Up to 12 AMCs
- Various combinations available for mid-sized, full-size, or compact AMCs

The MTCA500 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 MTCA500 features 12 AMC slots with redundant front-to-rear cooling. Several configurations are available for clock routing, AMC sizes (compact, mid, or full), etc. Optional Telco alarm and JTAG Switch Module.

The MTCA500 has configuration options that allow redundant power supplies, backplane topologies and FRU information devices.

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

Specifications

Architecture		
Physical	Dimensions	Height 5U (8.75")
		Width: 19"
		Depth ~ 10.5"
Type	μ TCA Shelf	1 or 2 MCH and 12 AMC
Standards		
PICMG	Type	MicroTCA.0 R1.0
Configuration		
Power	DC	1000W DC (36V—72V) 13 Amps Maximum
	AC	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

MTCA500-0BC-DEF-00J

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 = MCH Mode

- 1 = Single MCH
- 2 = Dual redundant

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 = Other

J= Conformal Coating

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

μ TCA[®]