

bluebox

Redundancy in blue: MicroTCA System bluebox failsafe operation and maximum availability through comprehensive management and redundant system components.

- MicroTCA System Platform 1 9" x 5 U x 200 mm
- Full redundancy provided by 2 x MCH (MicroTCA carrier hub), two cooling power modules
- Up to 12 AMC: 8 Full Size and 4 Compact Size or 10 Full Size modules
- Components are hot-swappable and controlled via IPMI
- Up to 8 temperature sensors



bluecube

The all-rounder for every job: MicroTCA System bluecube AC or DC power module, AMCs as single or double module – in a compact benchtop housing.

- Development System Platform
- Support for MCH Single Module - Full size
- Support for one PM Full Size (6 HP) or Extended Size (9 HP) or 12 HP for AC version
- PCI-Express, Serial Rapid I/O and 10GBase-BX4 Switching support
- Direct connection to S-ATA / SAS
- 3 synchronization clock networks
- ELMA EMMC Cooling Unit



MicroSlim Shelf

Compliant to MicroTCA.0 specification, the MicroSlim Shelf is designed to offer the performance benefits of MicroTCA within a space-saving 1U or 3U high platform. Optimizing the available space, the MicroSlim Shelf Classic holds 6 x AMC modules while providing MCH and J-TAG Switch Module (JSM) capability in the 1U size. The 3U size holds up to 12 AMC, 2 MCH, 2 PM, and 3 spare slots.

- Low profile, 1U or 3U heights
- 19" rack mountable (210mm depth)
- Optimized performance density
- 1U: Mounting for 6 x AMC modules (single-width/mid-size)
- 3U: Mounting for 12 x AMC modules (single-width/mid-size)
- Redundant push-pull Cooling Units – removable, intelligent
- JSM (J-TAG Switch)
- Optimized cooling via thermal simulation & testing



Ruggedized MicroTCA-ATR

The new MicroTCA chassis is an ARINC 404A Full-Size ATR Long Enclosure, often used in commercial and military aviation. The rugged enclosure features modified front panels that can be secured to the chassis. This provides more protection for shock and vibration. Shock absorbers/dampers can also be added to the enclosure for extra protection.

- MicroTCA ATR Long Enclosure
- Structural integrity through milled front- and rear-panel
- Designed to meet MIL-STD 810 E
- Support for MCH Single Module - Full Size
- Support for single Power Module 6HP or 9HP
- ELMA high performance EMMC Cooling Unit
- Ruggedized card guides secure cards in chassis



AMC load board

AMC full-size (single width, full height) load board dedicated for testing the cooling and power of µTCA systems. The board is hot swap pluggable and has IPMI support.

- AMC load board with IPMI support
- Configurable load from 0W to 70W in 7 steps
- Configurable load by IPMI commands or push button the front panel
- On-board temperature sensors



AMC Extender Card

The NAMC-EXT is an extender board for Advanced Mezzanine Cards (AMC). It provides a versatile means to speed up the development process and to trouble shoot AMC cards within an ATCA or uTCA environment.



Ruggedized MicroTCA-Rackmount

The new MicroTCA chassis is an ARINC 404A Full-Size COTS System Platform, often used in commercial and military aviation. The rugged enclosure features modified front panels that can be secured to the chassis. This provides more protection for shock and vibration. Shock absorbers/dampers can also be added to the enclosure for extra protection. Thermal management can be achieved via either convection or conduction-cooling.

- Ruggedized MicroTCA COTS System Platform
- 19" rackmount, horizontal mount
- Meets MIL-STD-810F, 167, 461D, and 901D
- Shock isolated card cage and device mounting
- Rugged chassis shells from thick aluminum sheets, extrusions, and die-castings. Joined by riveting, spot-welding.
- Front to rear evacuating cooling
- Removable fan tray features 1x (120mm x 120mm) fan and 2x (40mm x 40mm) fans, and finger guard
- Fan tray has ergonomic handle and LEDs for: voltage monitoring, fan fail and over temp
- Line filter, GND stud, shielded relay, IO panel, USB port, and fuse holder
- Temp: 0 C to 65 C operating temperature, Shock: 25Gs 11 ms



blueeco

MicroTCA System blueeco facilitates a wide range of industrial applications that previously ran on industrial PCs and single-board computers.

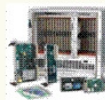
- Support for MCH Single Module - Full Size
- IPMI Power Distribution Module integrated on the backplane supplied by pluggable AC PSU 300W, 12V output
- Cooling Unit with IPMI support on backplane
- Direct S-ATA / SAS connections
- Compatible with management section of MicroTCA specification
- Optional connection AMC1 to AMC3



blusmart

Ideal solution for industrial applications in a harsh environment. Shock and vibration tested: MicroTCA System blusmart

- MicroTCA Development System Platform
- Horizontal or vertical mounting
- Support for MCH Single Module - Full Size
- Support for single Power Module – AC open Frame or Full Size (6 HP) DC
- PCI-Express, Serial Rapid I/O and 10GBase-BX4 Switching support
- Direct S-ATA / SAS connections
- 3 synchronization clock networks



Integrated Products

Did you know that Elma also offers complete subsystem integration for the embedded market?