

MicroTCA: The superior technology for your highly specific solutions

- Intelligent management for all FRUs (Field Replaceable Units), such as the power module or cooling units
- Electronic compatibility tests on all modules
- Hot-swap management of all plug-in elements
- Monitoring and control of all components
- IPMB shelf management based on I²C
- High speed serial (LVDS) point-to-point links on the backplane for extremely high data rates
- High availability through redundant system components

MicroTCA systems

blu!box

Redundancy in blue: Failsafe operation and maximum availability through comprehensive management and redundant system components.



blu!cube

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



MicroBox™

A very wide range of applications can be implemented in a single height unit. The simplebox with MicroTCA light is another possibility.



Ruggedized µTCA

Ideal for ground and air vehicles in action: Shock and vibration tested.



MicroTCA system components



MCH

Modular structure: Management module, clock synchronization and high-speed protocols such as Gigabit Ethernet, PCI Express, or Serial Rapid I/O, combined to meet individual needs.



Power modules

Wide range of AC and DC products, from 300 W up to 600 W; can also be configured redundantly.



Load card

An indispensable tool for system integrators: Intelligent load cards with IPMI management bus. Electronically adjustable loads from 20 W to 70 W.



AMC Extender

Simplifies any AMC test. Available as a version for tests within the system, or with an on-board DC/DC converter for testing AMC modules on the laboratory bench.

Local service – global resources



ELMA Trennew Electronic GmbH
Stuttgarter Strasse 11
D-75179 Pforzheim
Phone +49 7231 97 34 0
Fax +49 7231 97 34 97
info@elma.de



ELMA Electronic Inc.
44350 Grimmer Blvd.
Fremont, CA 94538
Phone +1 510 656 3400
Fax +1 510 656 3783
sales@elma.com



ELMA Electronic AG
Hofstrasse 93, Postfach
CH-8620 Wetzikon
Phone +41 44 933 41 11
Fax +41 44 933 42 15
sales@elma.ch



ELMA Electronic UK Limited
Solutions House
Fraser Road, Priory Business Park
Bedford, MK44 3BF
Phone +44 1234 838 822
Fax +44 1234 761 335
sales@elma-mektron.co.uk



ELMA Electronic France SASU
ZA du Buisson Rond
F-38460 Villemoirieu
Phone +33 4 37 06 21 10
Fax +33 4 37 06 21 19
sales@elma-electronic.fr



ELMA Electronic Israel Ltd.
34 Modi'in St.
Sgula I.Z., Petach-Tikva, 49271 IL
Phone +972 3 930 5025
Fax +972 3 931 3134
sales@elma.co.il



ELMA Electronic (China) Co., Ltd.
8F, 355, Fu Te Road (West 1)
Wai Gao Qiao Free Trade Zone
Pudong District,
Shanghai, 200131, China
Phone +86 21 5866 5908
Fax +86 21 5866 5918
sales@elmachina.com



ELMA Electronic Romania SRL
Calea Buziasului Nr. 11 A
300699 Timisoara
Phone +40 256 222 290
Fax +40 256 222 490
info@elma.ro

COMPETENCE IN MicroTCA





Infrastructure

- Power station management
- Data management
- Communications management



Industrial automation

- Process monitoring and control
- Machine control
- Image processing



Technology
made in
Germany



Telecommunication

- IP PBX
- DSLAM
- Cellular base stations
- VoIP
- WiMAX



Research and development

- Synchrotron
- Linear accelerator and particle accelerator



Medical technology

- Computer tomography
- Magnetic resonance tomography
- Ultrasonics

Applications without limits

Whether in telecommunications, medical technology or other industrial applications – nothing exceeds the flexibility of MicroTCA. Thanks to the modularity, scalable bandwidths, comprehensive management and redundant design, there are almost no practical limits on the applications. It is therefore all the more important not just to know what the technical options are, but to apply them in the way that is meaningful for the customer and application.

Customized to your needs

With our long experience and expertise in MicroTCA, we first analyze your needs and applications closely. After that, system components, matched to one another, can be selected (base system including backplane, MCH, AMCs, Power Module) to give your system its individual configuration.

What is more, through close cooperation with our other partners in the industry, we offer intelligent integration of a varied range of peripheral units. As a result, our customers do not just receive platforms; they get running systems, suited to the application, from one source.

ELMA – Your Solution Partner



Military technology

- Radar
- Sonar
- Telemetry
- Reconnaissance
- Software Defined Radio