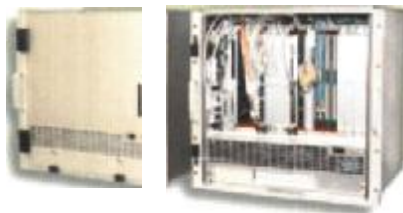
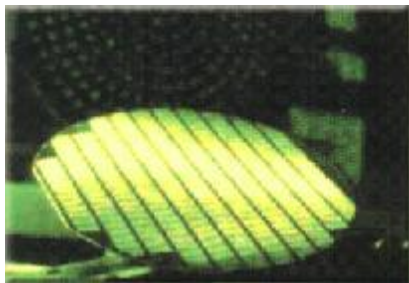


ELMA

Your Solution Partner



A division of Elma Electronic Inc.



COTS Products and Platforms for Embedded Computing



*Systems
By
Design*

We are a leading supplier and manufacturer of products and integrated embedded platforms for military/aerospace, communications, medical imaging, and industrial applications. We have a first class offering of standard and rugged COTS products: chassis, enclosures and cabinets, Mass Storage, Single Board Computers, network communications products (Ethernet, Rapid I/O, FDDI, etc) PMCs; RTOS, Linux or Windows, device drivers; and much more.

Innovative tailored COTS solutions

Platforms for Embedded Computing

The company provides innovative solutions through a synergistic combination of best in class partner products, our own line of storage products and over 100 man-years of system integration experience. We also provide ruggedized solutions to meet the most demanding environmental requirements. Certified to ISO 9001, the company supplies integrated embedded systems to companies in defense/aerospace, homeland security, semiconductor equipment, communications, and transportation industries.

Processor Bricks

An SBC and I/O sub-assembly



When you need to ensure that the Single Board Computer you order works with specific mezzanines, we can provide the SBC and the modules in a "brick" assembly. We'll bundle the boards under a single order number, qualify and test the assembly before shipment.

ACT/Technico can help you extend the application of Emerson COTS hardware by making mechanical enhancements and providing test services and qualification data.

AppliPaks

Target Application Development Systems



The ACT/Technico AppliPak is a bundled, single procurement source. It is based on open standards platforms; it is available in standard or ruggedized versions.

A typical bundle includes a PowerPC or Intel SBC; Linux or VxWorks; boot file and drivers; choice of mass storage devices; other options such as Transition Modules or Break Out Boards (BoBs), Ethernet, test and GUI based tools for integrated development environment (IDE). The AppliPak is fully tested before shipment.

Rugged Products

Standard COTS products enhanced for rugged environments



We can take true COTS products, such as single board computers and PMCs, then enhance and qualify them to meet project requirements. We offer a growing supply of conduction cooled boards as well as conformal coating for salt spray environments.

We qualify boards and systems to the environmental standards of MIL STDs 810F, 901D and 167, and 461. We also design and prepare these products for barge testing.

We offer conformal coating per MIL STD 1-46508 where required, and can extend the temperature range of COTS boards when needed.

Subsystems

Embedded platforms tailored to specific program needs



Our embedded sub-system solutions bring the bundle concept one step further, by providing the full range embedded package. They are designed to provide a complete platform upon which our customers build their integrated systems. Typical systems might include powered chassis with SBC(s), mass storage, rear transition modules, audio and video modules, Ethernet or fabric switch(es), the operating system and any necessary drivers. We work with you to manage the project through it's entire life cycle.

Services

Designed to fully support the total embedded solution



To support our efforts in providing you with the level of embedded solutions you require, we offer a full complement of services.

A platform solution might include any or all of the following: design & build plans, procurement, full product documentation, test services and plans, manufacturing, software installation, project management such as inventory & spares maintenance. We can do pcb and mechanical design, full doc package support, and testing services. We also offer OS configuration and install along with device drivers.

Who we are...

Elma Electronic Inc. is a leading supplier and manufacturer of embedded electronic packaging, components, boards, and sub-systems. The company supplies a full complement of products for electronics packaging and sub-systems integration: boards, chassis, backplanes, mechanical components, cabinets, and rotary components for a wide variety of applications worldwide. With the acquisition of ACT/Technico in January 2009, Elma Electronic Inc. became a leading supplier of integrated embedded boards and sub-systems built on open standards platforms, including Single Board Computers, mass storage and RAID products, I/O and networking solutions, RTOS, Linux or Windows, and device drivers. System architecture, hardware, and software design services are offered to quickly deliver complete solutions and expedite time to market. We take true COTS products, such as single board computers and PMCs, then enhance and qualify them to meet your rugged requirements.

We provide innovative solutions through a synergistic combination of best in class partner products, our own line of storage products and hundreds of man-years of system integration experience. This extensive range of products and services gives Elma Electronic Inc. a unique ability to complete entire projects from initial system architecture through specification, design, manufacturing and test. The company offers a fast, flexible response to customer needs and extensive practical knowledge in tailoring solutions to specific applications. Elma can provide ruggedized solutions

to meet the most demanding environmental requirements. Certified to ISO 9001, the company supplies integrated embedded systems to companies in defense/aerospace, semiconductor equipment, transportation, communications, medical imaging and homeland security.

Elma has a professional sales team committed to the value added sale. Our sales staff and application engineers are able to match requirements to the application and recommend semi or full custom solutions when appropriate. Our staff of experienced electrical, software, mechanical and system engineers combine to provide state of the art solutions designed to meet our customers' specifications. We support those products long after shipment with warranty coverage and complete documentation packages.

In house manufacturing capability rounds out our ability to integrate the products and designs into a complete, shippable solution. Our Quality department rigorously maintains our corporate commitment to ship products that are built with quality workmanship.

Elma - ACT/Technico is capable of quickly turning projects from initial system architecture through to specification, design, manufacturing and test. We also work with you to manage the entire project including EOL issues and spares inventory and life-cycle management. Visit www.acttechnico.com or call us for more information. For detailed systems packaging information, please visit www.elma.com.

www.elma.com

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Member



PICMC,

Open Modular
Computing Specifications



Tel. (215) 956-1200 • E-Mail: sales@acttechnico.com

Embedded Products

Standard and modified COTS

Products for Embedded Computing

ACT/Technico has been supplying integrated embedded solutions since 1978, and Elma Electronic has been packaging experts for 40 years. Our combined experience enables us to provide you with the right platform for your program needs. To support this effort, we have a first-class offering of VME, CPCI and other standards based products -- single board computers, mass storage, networking, device drivers, and more. We take true COTS products, such as single board computers and PMCs, then if needed, enhance and qualify them to meet project requirements.

Storage

Innovative Embedded Mass Storage Solutions



- Drive Form Factors:
- 1.8", 2.5" & 3.5" & CF
 - Rotating
 - Solid State Flash
 - Optical (CD/DVD)
 - Tape Drives
- Board Form Factors:
- PMC/XMC
 - VMEbus/VXS/VPX
 - CPCI, PICMG 2.16
 - ATCA & mTCA
- Direct Attached Storage (DAS)
- Network Attached (NAS)
- RAID 0 - 5
- Removable drives
- Hot swap & FRU
- Data Security Solutions:
- Secure-Erase
 - Write-Protect

SBCs

From legacy to latest technologies



- Single Board Computers:
- Emerson Network Power
 - Concurrent
 - Interface Concept
- Processors Supported:
- PowerPC
 - PowerQUICC
 - Pentium
 - Core Duo /Core 2
- Form Factors:
- VMEbus/VPX
 - CPCI, PICMG2.16
 - ATCA, mTCA
 - PrPMC
- COTS Ruggedization Program: Enhanced and/or modified standard products
- Conduction cooled

Networking

Full range of Ethernet solutions



- Switches and controllers
- Fast (10/100), Gigabit and 10 Gig Ethernet
- Up to 26 ports in a single slot
- Copper / Fiber (Optical)
- Managed (Layer 2 & 3) and Unmanaged
- IPv4 & IPv6
- Multicast / Unicast
- Conduction cooled versions
- Board Form Factors:
- PMC/XMC
 - VMEbus/VPX
 - CPCI, PICMG 2.16
 - ATCA, mTCA

I/O Products

Wide range of available solutions



- Functions:
- SVGA / LCD
 - Serial
 - Network Controllers
 - Audio
 - SCSI / ATA
 - A/D and D/A channel converters
 - 1553, ARINC
 - Motion Control
 - CANbus
 - Parallel / Binary
 - FPGA based
- Form Factors:
- PMC/XMC
 - M-Modules
 - 6U VMEbus
 - 3U & 6U CPCI/ PICMG 2.16
 - 3D & 6U VPX

Software

Operating systems and drivers

- Software
- WIND RIVER**
- ELinOS**
- ARINC-664 (AFDX)
- Real-Time Operating Systems: VxWorks
RT-Linux
- Linux Distributions: Industrial Real-Time
- AFDX Avionics
- ARINC
- Software drivers and development
- MBit for legacy Emerson (Motorola) VME SBCs

Represented in Florida by:
Altis Technology
Contact: David Parkerson
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david@altistechnology.com

Secure PMCStor

Write-protect or secure erase
data protection solution

