



**ELMA**  
Your Solution Partner

# Industrial Computing Solutions

SYSTEMS SOLUTIONS

ENCLOSURES & COMPONENTS

ROTARY SWITCHES

CABINETS



[www.elma.com](http://www.elma.com)

## Who we are, What we do...

Elma Electronic has been designing and manufacturing embedded industrial computing solutions for over 50 years.

We leverage proven technologies to create both standard off the shelf and custom computing products as well as systems and custom projects in compact small form factors, 19" rackmount packaging and equipment cabinets and racks.

As a Cisco Solution Technology Integrator we offer Cisco IOS secure IP routing as an option in most designs.



### Global industries

As a global leader in embedded computing products Elma provides off the shelf or custom engineered solutions that boost productivity, improve efficiency, ensure reliable communication and enhance security for a wide range of industries.

- Manufacturing and automation
- Mining and drilling operations
- Homeland security
- Transportation
- First responders and rescue operations
- Agriculture



# We understand our **Customers' needs**



## **COMMUNICATIONS**

Elma has provided leading edge Ethernet based switches and routers for over 15 years.



## **ENERGY**

Elma supplies embedded systems packaged for use in mining operations and pipe line inspection in harsh environments.



## **INDUSTRIAL AUTOMATION**

Elma provides industrial PCs for HMI, process control, data acquisition and imaging for production line applications.



## **MEDICAL**

Application ready systems for imaging, surgical and therapy systems, patient monitoring, IT and patient diagnostics



## **TRANSPORTATION**

Rugged EN 50155 compliant systems for rail transportation including trackside and rolling stock systems.



## **SMART GRID**

Systems for smart grid applications that enable communications, sensing and measurement, HMI, data acquisition and machine control.

Our lineup of standard products and our project driven experience reflects a deep understanding of the requirements common to the industrial embedded computing market. The result is a broad selection of compliance tested and environmentally engineered solutions backed by the most knowledgeable company in the market – Elma Electronic.



**ProSys Industrial PCs**

Look to our ProSys industrial platforms for highly flexible and efficient automation and process control solutions.



**Data Acquisition and Machine Control**

Systems providing serial communication and Ethernet interfaces for data acquisition applications and human machine interface (HMI) applications in commercial extended temperature environments.



**Cisco Secure Network Routing**

Bringing Cisco networking capability to the embedded computing industry is easy now that Elma is a Cisco Channel Partner. Custom and off the shelf solutions featuring Cisco's Embedded Services Routers.



**19" Rackmount chassis**

Chassis platforms based on proven, modular designs and a 50 year track record of providing ideal solutions for any industrial application.

**High Speed Image Capture and Data Collection**



OptiSys-5101 is a high performance embedded vision system featuring four Camera Link image frame grabber ports plus high capacity removable storage.

Elma can provide fully integrated turnkey systems including functional and environmental testing to get your site up and running as soon as possible.



### Railway Compliant Products

Elma builds embedded computing products, chassis platforms and a range of electro mechanical components used in railway applications. Certifications include Safety Integrity Levels (SIL - IEC EN 61508), EN 50155 for Electronic Equipment, AREMA and CENELEC standardized tests for shock and vibration.



### CompactPCI Serial

Field proven CompactPCI serial systems and boards providing up to 12Gb/s of high speed data transmission. 3U and 6U products in air and conduction cooled versions.



### Equipment Racks and Cabinets

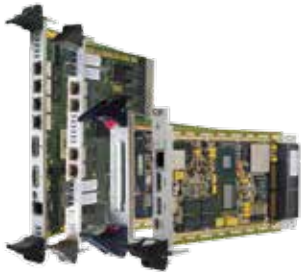
Elma's standard and custom cabinet designs address applications in broadcasting, clean labs, data and telecom centers, railway transportation and industrial manufacturing. We are experts in thermal management solutions cabinet level shock and vibration mitigation.



### Power Supplies

Elma has over 30 years of experience in delivering optimized power solutions ranging from 0.25 watt converters for PCB mounting, to slot based scalable models to 500,000 watt power cabinets for indoor or outdoor use.

Whether individual components or complete systems, take advantage of Elma's extensive product lines, our integration experience and mature chassis families to reach the solution you need.



**Embedded Boards**

Elma's best in class native and partner board products are designed into hundreds of industrial computing installations all over the world. Single board computers, mass storage, Ethernet switches, FPGAs, image processors and custom I/O solutions in VME, VPX, CPCI, ATCA, MicroTCA and mezzanines.



**Backplanes**

Elma is the recognized industry leader in backplane interconnect manufacturing. Designed for high speed signal integrity to ensure reliable products in cPCI Serial, AdvancedTCA, cPCI, MicroTCA, OpenVPX, VME, VME64x, VXI and VXS.



**Standard and custom enclosures**

Elma is a global manufacturer and supplier of aesthetically designed desktop, lab and outdoor enclosures for fixed and mobile applications. Custom I/O panels and expandable designs.

## Rotary Encoder Switches and Indicators

Our rotary switches control knobs and indicators are the choice of medical equipment manufacturers, manufacturing equipment suppliers and premier two-way radio manufacturers globally.





## Our Services



### **Dependable post sale service and support**

Unlike other industrial computing system manufacturers, Elma provides easy access to product experts who are ready to assist with your post sale support requests.



### **End of life (EOL) management and configuration control**

Life cycle management is one of our strong points and component obsolescence will not stand in the way of your next purchase. Whenever possible Elma provides tested form, fit and functional alternatives that keep your project on track.



### **Complete documentation packages every step of the way**

Functional testing ranges from system power on to higher level functional testing so each product is ready to support your application.



### **Exact functional test and verification**

Functional testing ranges from system power on to higher level functional testing so each product is ready to support your application.



### **Full environmental characterization and testing**

Elma has in house capabilities supporting full thermal testing including airflow, temperature cycling and thermal modeling, shock and vibration, EMC, structural analysis and signal integrity.



### **Low volume / high mix production**

Elma welcomes low volume / high mix jobs and will work with your team to modify any standard product or start from the ground floor on a new design.



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