ELMA
Your Solution Partner

Artificial Intelligence
for Embedded Computing

DRIVING INNOVATION

SYSTEM SOLUTIONS
ENCLOSURES & COMPONENTS
ROTARY SWITCHES

Building blocks for Embedded AI solutions

Elma Electronic proudly presents our first products in a series of embedded computing platforms that enable deep learning and artificial intelligence, showcasing the power of Nvidia's Jetson AI solutions.

Whether you are building autonomous vehicles, intelligent robotics, or high security screening vision systems, our AI-powered platforms deliver some of the most powerful embedded computing architectures to industrial applications that require rugged and reliable operation.

Nvidia's family of Jetson architectures brings low-power, high-performance artificial intelligence and deep neural machine learning to industrial applications seeking automation in manufacturing, transportation, infrastructure, agriculture, smart cities and more. Elma Electronic brings high-performance AI computing power into rugged industrial embedded computing environments.

Elma's decades of innovative, open architecture-based hardware expertise uniquely positions us to develop and design intelligent AI embedded computing platforms to fit different requirements. Our CPCI-Xavier JetKit-3010 delivers GPU workstation performance in a low-power, embedded 3U CompactPCI Serial card using Nvidia's Jetson AGX Xavier. The JetSys-5230 is a small form factor, rugged embedded computing system based on the NVIDIA® Jetson™ TX2i.

No matter the challenge in your next-generation AI project, Elma has the right platform to suit your requirements.

JETKIT-3010 - NVIDIA® JETSON AGX XAVIER™ MODULE FOR COMPACTPCI SERIAL PLATFORMS
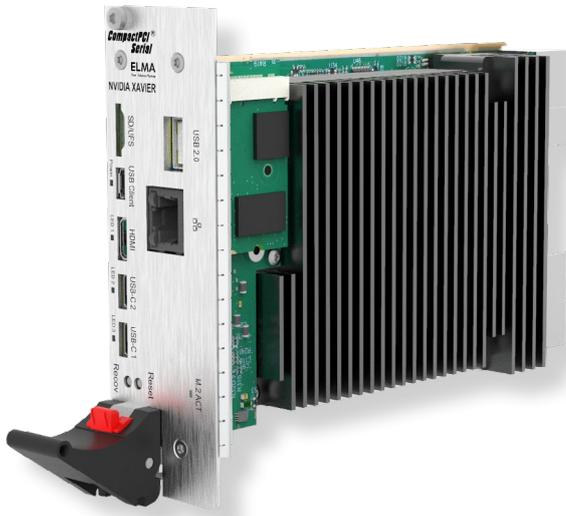
Discover the power of Nvidia's Jetson AGX Xavier, delivering GPU workstation performance in a low-power, embedded slot card. Leveraging the open standards-based industrial CPCI Serial platform, design and deploy end-to-end AI robotics and autonomous machine applications for projects that require machine deep learning and vision systems in rugged environments.

- NVIDIA® Jetson AGX Xavier™ Module on industrial grade 3U CompactPCI Serial card
- Wide range of board interfaces
- Designed for test and development (industrial grade Q1/2022)
- 32 GB storage capacity
- Front panel access to multiple I/O interfaces and system status LEDs: USB, HDMI, Ethernet, power, and more
- Backplane interfaces for GigE, PCIe and USB

JETSYS-5230 - NVIDIA®-POWER FOR HARSH ENVIRONMENTS

Nvidia's Jetson TX2 series modules provide power-efficient, real-time processing for applications where bandwidth and latency are critical. Designed for use in rugged industrial computing applications, Elma's JetSys-5320 delivers true Nvidia Pascal™ GPU architecture, purpose-built for AI and deep machine learning, along with access to readily available software-acceleration libraries and tools for dramatically higher performance applications across multiple domains.

- Highly rugged small form factor enclosure
- NVIDIA® Pascal™ or Maxwell™ architecture
- 256 CUDA cores deliver over 1 TeraFLOPs of performance
- 64-bit ARM A57 CPU
- 4K video encoder/decoder
- Ethernet camera and 3G SDI video capture support
- Advanced power management
- I/O expansion via miniPCIe

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