

Our Products Make Your Products Better®



Engineering

EMAC is an acronym for Equipment Monitor And Control. Since our inception in 1985, EMAC has been producing hardware and software for this marketplace. Since 2006 EMAC has focused on Embedded Data Acquisition and Control using ARM based processors primarily in our System on Module (SoM) & Single Board Computer (SBC) product lines. This has allowed EMAC to design Custom Carrier Boards & SBCs for customers using our standard HW/SW library of IP blocks which include: A/Ds up to 24-bit, D/As up to 16-bit, Valve & Motor Drivers, Isolated GPIO, Relays, Decoders, Video Capture, LCD/Touch, CAN, USB, Wi-Fi, Bluetooth, Zigbee, Cellular Modem, Ethernet, Field Bus Protocols, Real Time (Xenomai), Battery/Low Power, etc. Utilizing these HW/SW IP Blocks provides an extremely cost affective semi-custom approach.

EMAC's OEM products are designed and manufactured in the USA.

Products & Services

- Hardware Engineering Service
- Software Engineering Service
- Box Build and Integration Service
- OEM Industrial Panel PCs
- OEM System on Modules (SoM)
- OEM Single Board Computers (SBC)
- Turnkey Embedded Computer Systems

Hardware Engineering Services

EMAC provides hardware design services for ARM, x86 and microcontroller systems that incorporate real time control, graphic user interfaces, networking and wireless connectivity. We offer battery backup and charging, analog (sensor) signal processing, motor control for use in standard and rugged environments.

Software Engineering Services

EMAC provides software design services that include Embedded Linux, Windows OS , Android Builds & customization. We offer standard and Real Time driver development, application development (including Web based and Mobile), Remote Access and updating, database connectivity/utilization, porting code to new platforms and more.



EMAC, Inc. is a global leader in embedded system design and manufacturing

Semi-Custom

EMAC has been doing custom engineering since 1985. Since that time EMAC has developed an array of single board computers (SBCs), System on Modules (SoMs), peripherals, and development software. These off-the-shelf products have a variety of features allowing them to be easily incorporated into a number of applications. Typically EMAC can leverage these off-the-shelf designs along with an arsenal of ready to run software library routines and device drivers in a semi-custom application. This semi-custom approach provides the customer with a substantial cost savings and time savings over a fully custom “design from scratch” approach.

Custom Engineering

The semi-custom approach works extremely well for prototypes and small production runs. If your application is cost sensitive or will be mass produced then a fully custom approach makes the most sense for production units. If a fully custom approach is warranted and the application requirements can be met by our off-the-shelf components, then a semi-custom design of the prototype is a cost effective method of determining the feasibility of a product. After the prototype has been approved, a fully custom design can be derived from the semi-custom prototype. Hardware design of digital, analog and microprocessor based circuitry is no problem. Circuits containing Programmable Logic Devices (PLDs) or even Field Programmable Gate Arrays (FPGAs) can be developed.

U.S. Based Manufacturing

EMAC has in-house manufacturing capabilities that we use to produce our OEM products. We use these same capabilities to produce custom prototypes and production products for our customers. The availability of our engineering, manufacturing and integration services housed at the same facility, allows us to be extremely efficient when designing and producing products.



ISO 9001:2015

Certified



Integration/Box Build Services

EMAC can fully integrate any product that we sell or design. This includes the integration of software, memory, enclosures, cabling, etc. In addition to EMAC OEM products, we also offer a wide selection of distributed products from top tier manufacturers. These products can be mixed with our design services to provide Turn-Key solutions.

