



**ABB EPIS:** [www.geindustrial.com/criticalpower](http://www.geindustrial.com/criticalpower)

- AC/DC Power: Front end AC Rectifiers -500W to 4000 Watts (12V,48V), DC/DC versions available; Custom AC-DC Solutions, single and multiple output versions
- DC/DC Power: Isolated Converters: Full/Half/Quarter/Eighth/Sixteenth bricks/1x1/1x2; Non-Isolated Converters featuring Lynx/NSR Series Power Modules, SIP or SMT versions, 3A-60A Filter Modules: 5A/10A/20A Current Range
- Distributed Bus Architecture Solutions: Intermediate Bus Converters (IBC) 120-400W



**CTS Corporation:** [www.ctscorp.com/components/default.htm](http://www.ctscorp.com/components/default.htm)

- Quartz Crystals, Clock Oscillators: nWave, VCXOs, VCSOs, TCXOs, OCXOs
- RF and Timing Modules: VCOs (Voltage Controlled Oscillators), VCO/PLL Synthesizers, Frequency Translator/Jitter Attenuators, Front End Modules, Clock Generators/Timing Modules
- Ceramic Components: Monoblock Filters, Duplexers
- Resistor/Electro Components: Clear One BGA Terminators, Resistor Networks and Arrays, Trimmers, DIP Switches, Potentiometers



**Dawar, a Sharp Value Add Partner:** [www.dawar.com](http://www.dawar.com)

- Dawar Technologies is a recognized leader in providing resistive and projected capacitive touch solutions and value added integration and custom product enhancement services for the medical, military, industrial and instrumentation markets.
- Dawar has design and application engineering support as well as manufacturing facilities in both the USA and Asia to provide global support for our customers.



A Siemens Business

**Mentor Graphics:** [www.mentor.com/products/](http://www.mentor.com/products/)

- Electronic Design Automation (EDA) software solutions to automate the design, analysis, and testing of complex electro-mechanical systems, electronic hardware, and embedded system software
- Xpedition Enterprise: System & Schematic Design Entry, FPGA/PCB Co-Design, Sketch Routing & 2D/3D Layout, XtremePCB & XtremeAR for simultaneous physical design, Library & Design Data Management, Advanced Constraint Management, SI/PI/Thermal/Analog Analysis
- PADS PCB Design Solution: Schematic Design, Unified Central Library, Design Archive Management, Constraint Management, SI/PI/Thermal/Analog Analysis, ECAD/MCAD Collaboration, Advanced Layout & Routing-Functional Verification:
- ModelSim: a hardware description language mixed-language digital simulator supporting VHDL & Verilog
- Questa Platform for Advanced mixed-language FPGA & IC digital verification supporting VHDL, Verilog, SystemVerilog, SystemC, & UVM/OVM Mechanical Analysis:
- The most comprehensive electronics cooling, HVAC and CAD-embedded CFD solutions in the world



**Nanya Technology Corporation (NTC):** [www.nanya.com](http://www.nanya.com)

- Home & Entertainment: Nanya offers reliable and stable DRAM solutions to cover consumer DRAM(DDR ~ DDR4) required for home applications. For density, choices range from 512Mb to 8Gb to best fit a variety of applications including DTV, STB, DVD, Networking, Game console and IoT applications.
- Mobile & Portable: Nanya Technology carries a comprehensive mobile product line that covers technologies from LPDDR1 to LPDDR4X, with densities ranging up to 16Gb. Nanya supports multiple package options for low power DRAM that include PoP or BGA or MCP packages depending on customer requirements.
- Automotive: Nanya Technology's automotive grade products are certified by AEC- Q100 and TS16949. Product densities range from 512Mb ~ 8Gb with temperature coverage from -40° to 105°. Nanya Automotive & Industrial DRAM devices are also offered as low power DRAM and wide temperature MCP.
- Office & Enterprise: Nanya has become a valued solution in this market with a strong DRAM portfolio that serves the office and enterprise needs such as networking, storage and other office peripherals. Nanya's products include standard DRAM and Low power DRAM (LPDRAM) with a density selection ranging from 512Mb to 8Gb.
- Custom: Foundry Services on custom Non-JEDEC DRAM applications



**Sharp:** [www.sharpsma.com](http://www.sharpsma.com)

- Industrial Strength LCDs from 3.5" to 23.1" featuring LED backlighting to enable lower power consumption, long backlight life, slim profiles and high resistance to shock and vibration for superior color, reliability and low power. Specialty panels are available with PCAP touch and high brightness backlights.
- Ultra-low Power Memory LCDs from 0.96" to 4.4": Consumer Performance enhanced by a lightweight, two-glass design plus an integrated driver in the panel provides an exceptionally thin module that's a perfect solution for compact handheld, wrist-top, and other small-screen devices that benefit from displaying rich content.
- e-Signage Modules from 70" to 90": True-to-life detail of Full-HD. Sharp's UV2A process enhances the picture with wide viewing angles and high contrast.
- Sharp offers value added integration including touch sensors, bonding, brightness enhancements to adapt to a display panel for any application.



**Siber Circuits:** <http://sibercircuits.com/>

- 1-16 layers standard production PCB boards.
- Flex Circuits 1-8 layers standard technology.
- Blind and Buried Flex, rigid Flex 26-32 Layers: R&D Product
- Prototype: 1-10 days. Production QTY: 2-3 weeks. Offshore Production: 3-5 weeks
- Materials: Standard FR4, ROHS High Temp, Teflon, Duroid Electroless Nickel, Immersion Gold, Immersion Silver, Immersion Tin HASL, OSP
- ISO 9002, UL94V-0, ROHS Compliant (including high operating temp meeting ROHS compliant materials)

## TOSHIBA

**Leading Innovation >>>**

**Toshiba:** [www.toshiba.semicon-storage.com/us/top.html](http://www.toshiba.semicon-storage.com/us/top.html)

- SLC NAND, BENAND, 15nm e-MMC, UFS, MCP and FlashAir Memory products. Enterprise / Client SSD and HDD Storage products
- Medium Power Mosfets, RF Microwave, System Power Device, Optoelectronics, LEDs / LED Drivers
- FFSA Structured Arrays, App Lite, App Lite+, MPD (Mobile Peripheral Devices), ASSPs, CMOS ASIC to COT solutions
- ARM Core-based Microcontrollers, Wireless Communication ICs, Sensor modules

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## ARM®

ARM: [www.arm.com/products/tools/index.php](http://www.arm.com/products/tools/index.php)

- ARM DS-5 is a flexible and powerful suite of software development tools for ARM application processors and System-on-Chip (SoC) devices. DS-5 is ideal for designers who require leading edge support for ARM technologies.
- Keil MDK-ARM is a complete software development environment for all ARM processor-based microcontrollers. MDK-ARM is easy to learn and use, yet powerful enough for the most demanding embedded applications.
- Fast Models enable software development can begin prior to silicon availability, helping developers debug, analyze, and optimize their applications throughout the development cycle.
- Development Boards: Building a development system from ARM Versatile Express boards minimizes project setup time and allows the developer to concentrate on testing and validating the product IP and software.

## labforge

LabForge Inc.: <http://www.labforge.ca>

- Labforge is an innovator in the development of artificial intelligence situational awareness platforms, currently focusing on deployments in the Safety & Security markets.
- An Artificial Intelligence (AI) powered network of visual sensors that automatically detects, tracks, and classifies objects of interest on a unified map-based interface.
- The system provides situational awareness and analytics in a wide variety of applications.



A Siemens Business

Mentor Graphics – Embedded: <https://www.mentor.com/embedded-software/>

- The Mentor Graphics® Embedded Systems Division enables embedded development for a variety of applications including automotive, industrial, smart energy, medical devices, and consumer electronics.
- Embedded developers can create systems with the latest processors and micro-controllers with commercially supported and customizable Linux-based solutions including the industry-leading Sourcery™ CodeBench and Mentor Embedded Linux products.
- Developers can take advantage of the small-foot-print and low-power-capable Nucleus RTOS for real-time systems.

## prodesign

electronic gmbh

PRO DESIGN Electronic GmbH: [www.prodesign-europe.com](http://www.prodesign-europe.com)

- Provider of FPGA based Prototyping systems
- Provider of FPGA based High Performance Computing Systems
- Electronic Manufacturing Services (E<sup>2</sup>MS)
- Development of complex digital- and mixed signal circuits
- PCB-Layout and Construction Prototypes to mid-size series (1 up to 5000 units per year)

## SIEMENS

*Ingenuity for life*

Siemens AG: <https://polarion.plm.automation.siemens.com/>

- Polarion® ALM™ Software is a leading provider of a 100 percent browser-based and unified platform for Requirements, Quality, and Application Lifecycle Management.
- The company helps global organizations in a wide range of industries from automotive to medical device and aerospace – creators of products that people trust – achieve agility, traceability and compliance for their complex products.
- Worldwide users rely on Polarion to fuel collaboration; integrate ALM and PLM; and more efficiently bring their high-quality products to market.

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