



FTW, LLC (www.ftwllc.net) is a Manufacturers' Representative with a focus on **Power Products, Components, and Services**. We have developed a well-balanced set of suppliers to meet your entire product and support needs. Our territory is the Great Lakes Region, from Minnesota to Kentucky, and parts of Iowa to Ohio. We are here to serve you with fast and responsive service, with a thorough knowledge of our offerings.

COMPONENTS

Power Integrations - Scale iDriver / Qspeed Family (www.power.com) **Si DIODES, Gate Drivers & ICs**
Power Integrations (PI) is the leading supplier of high-voltage analog integrated circuits used in energy-efficient power conversion. The company's innovative technology enables compact, energy-efficient power supplies in a wide range of electronic products, in AC-DC, DC-DC, and LED lighting applications. **Qspeed** is a family of advanced diodes. These high-performance diodes reduce wasted energy providing an overall switching performance that is comparable to silicon-carbide (SiC) diodes at much lower costs. **Scale iDriver** is an isolated driver IC with up to 8A of output and many safety features.

Payton Group, LLC / HIMAG (www.paytongroup.com, <http://www.himag.co.uk>) **PLANAR MAGNETICS**
Payton Group designs and manufactures magnetics using all technologies including standard wire, square wire, and Litz wire. Payton specializes in **Planar** Transformers and Inductors. These transformers use a PCB and/or stamping technology and are **superior to standard wire wound transformers** in several ways. Planar transformers and inductors function better in high frequency and have a higher power capacity. So they are recommended for **GaN** or **SiC** applications. They have a lower profile and more robust mounting design. Planars are used in **Hybrid Vehicles, Audio Amplifiers, Telematics, DC/DC power converters** and many other applications.

United Silicon Carbide, Inc. (www.Unitedsic.com) **SiC DIODES & SWITCHES**
United SiC (USCI) is changing the way energy is processed through breakthrough **Silicon Carbide (SiC) technology**. United SiC power semiconductor products deliver **record-breaking efficiency**, **greater power density**, and **higher reliability** than comparable silicon-based devices. Standard products include 650V to 1700V JBS Schottky Diodes and normally open & normally closed JFETs. In addition USCI has custom products ranging from bipolar transistors to IC's up to 20KV. Solutions from United SiC are ideal for a variety of power electronics applications such as **power supplies, solar, wind inverters, rectifiers, grid storage, and hybrid-electric drives**.

Polycharge America, Inc. (www.Polycharge.com) **NANOLAM CAPACITORS**
Capacitors produced using PolyCharge NanoLam Technology are hitting the market in force. Polycharge NanoLam capacitors, especially for DC link applications, are about 30% - 50% the size of polypropylene film caps, can handle environments up to 140C, can handle similar ripple currents, and can maintain capacitance at high frequencies.

Richardson Electronics, LTD. (www.RELLPOWER.com) **NATIONAL ELECTRONICS**
RELL is a power electronic product and component distributor, offering numerous brands including their own National Electronics brand. Other products offered are: power discretes and modules (**SCRs, Diodes, IGBTs, IGBT Power Stacks, Si and SiC devices, GaN power transistors**), a full array of capacitors (**electrolytic, film, ceramic, etc.**), **ultra capacitors** (aka **supercapacitor** or electric **double layer capacitor**), vacuum contactors, resistors, and thermal management products (**heat sinks, fans, cooling plates, etc.**).

Future Technology Worldwide

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PRODUCTS

FEDCO Batteries, Inc. (www.fedcobatteries.com)

BATTERY PACKS & CELLS

FEDCO is the nation's largest value added **battery distributor** serving the information technology industry. Fedco also is a leading designer, engineer and manufacturing expert of **custom, high quality battery packs** that coupled with ac adapters and dc power adapters and chargers and electronics, provides a total power solution. Established in 1975, Fedco has become one of the most respected names in the battery industry through our commitment to provide high quality products at competitive prices along with unsurpassed customer service.

Core Technology, Inc. (www.Coretechnology.com)

POWER SUPPLIES, CONVERTERS

Provider of high performance custom and standard **AC/DC** and **DC/DC power conversion** products and a broad range of highly efficient and reliable solutions. Core offers products ranging from modular component power, rack-mount solutions, stand-alone power supplies, and custom form factors to meet various needs. Their products range from as low as 5 watts up to 8,000 watts. They use a **Discrete Modular Integration (DMI)** to quickly and reliably engineer custom products to customer requirements. DMI provides numerous benefits to their customers including low NRE, quick turn-around times, and having low-risk development through field-proven technology. Current markets are: transportation, aerospace, military, communications, industrial automation, and green technology industries.

Global ET (www.Globalet.com)

POWER CONTROLLERS, CONVERTERS, POWER DISTRIBUTION

Global ET creates and produces compact, smart, networked, configurable, and modular power control electronics. Global ET products are configured for applications such as advanced **voltage regulators, intelligent power distributions units, DC/DC converters, and motor controllers**. Global ET specializes in high current and high voltage systems in automotive, heavy truck, military ground vehicle, and robotics industries.

Detroit Delta (www.DetroitDelta.com)

3D PRINTERS

Detroit Delta manufactures Industrial 3-D printers for high reliability and maximum throughput. An industry first, Shockplate™ technology, provides automatic part release. High temperature extrusion supports a wide range of industrial grade thermoplastics.

SERVICES

Detroit Delta (www.DetroitDelta.com)

3D PRINTING

Detroit Delta offers full service solutions from industrial design, **3-D scanning** to **3-D printing**. Specializing in product prototyping with quick turnaround and creative design support. Your order will be promptly, and professionally managed by Delta's award winning staff.

Made-Right Precision Manufacturing (www.maderightonsize.com)

CNC MANUFACTURING

Made Right is a CNC job shop specializing in Milling work. The **experienced, highly trained** and **talented** Machinists are the corner stone to their success. Utilization of the latest technology is key to producing parts right the first time. Their high-speed machining centers are also capable of **3d mold work**. They work with a wide variety of materials including plastics and other non-typical materials.

Tecnova Electronics Inc. (www.tecnova.com)

CONTRACT MANUFACTURING

Having just moved into their new facility, Tecnova is perfectly positioned to take on any **electronic manufacturing** opportunity. From PCB assembly to complete module and product assembly (including wire and cable harnesses, or control panels) Tecnova does it all. This includes but is not limited to, in-circuit test, functional test, conformal coating, and potting. Tecnova has all of the necessary disciplines to truly offer a turnkey experience.

Tecnova Electronics Inc. (www.tecnova.com)

PRODUCT & AUTOMATED TEST DEVELOPMENT

Tecnova provides design services for any phase of **Product Development** as well as full turnkey solutions. They use innovative design skills and cover everything from Specification Creation, Electrical, Mechanical and Software development. In addition, Tecnova also specializes in **Automated Test development**. Tecnova is your partner in success, bringing your concepts and development challenges to market quickly and efficiently.



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