Technical solutions that are easy to find and easy to buy.
# Power Electronics

## USA Stock, Readily Available

### AC/DC Power Supplies & DC/DC Converters

**Enedo** – offers the smallest form factor, high efficiency AC-DC power, LED drivers and power solutions.

**MEAN WELL** – provides the largest selection of standard AC/DC power supplies, LED drivers, DC/AC inverters & chargers, and surge protection products.

**MINMAX Technology Co., Ltd.** – produces a comprehensive line-up of DC/DC converters from 1W to 75W and AC/DC Power Modules from 2W to 60W.

**NetPower Technologies** – industry leader in brick style DC/DC converters with very high efficiency, high power density, isolated and non-isolated.

**Phihong** – provides AC/DC adapters (wall plug and desktop), POE-midspans, extenders and splitters.

### EMI/EMC Noise Filters

**Okaya** – offers electrical noise and surge suppression components.

### Cable Assemblies & Power Cords

**LINVOX Corp.** – provides standard and custom power cords with worldwide safety certificates.

### Power Management ICs

**Skyworks Solutions** – analog semiconductor products including battery chargers, DC/DC converters, voltage regulators and LED drivers.

### Thermal Management

**Bergquist** – supplies advanced thermal management materials.

**Mechatronics** – provides AC and DC axial fans, blowers, motorized impellers and value-added assemblies.

**YS Tech** – offers AC and DC axial fans, blowers and cross flow fans with long life bearing systems.

### High-Performance Passive Components

**Knowles Capacitors (Novacap)** – offers multilayer ceramic capacitor (MLC) products from 0402 surface mount capacitors to 10kV high-voltage units.

**Okaya** – provides electrical noise and surge suppression components.

**Knowles Capacitors (Syfer Technology Limited)** – offers application specific multilayer ceramic capacitors and EMI suppression filters.

### Magnetics

**Precision** – produces standard and custom magnetic components and assemblies, including transformers, coils, chokes and inductors.

**Renco Electronics** – supplies custom and standard transformers, inductors, chokes, coils, and subassemblies for many applications.

### Fuses

**AEM Components** – provides surface mount protective and inductive electronic components for circuit protection and EMI signal filtering.

### Terminals & Connectors

**Amphenol LTW** – develops waterproof interconnects from IP65 to IP69K for rugged & harsh environment applications including LED lighting & signage.

### Semiconductors

**Electronic Devices (EDI)** – produces bridges, low and high voltage rectifiers, high voltage fast recovery diodes and high voltage assemblies.

### Indication

**Okaya** – produces a wide range of standard and custom LCD modules and display technologies with highly accurate touch panel technology.

**Visual Communications (VCC)** – supplies LED indicators, LED light pipes, neon indicators and incandescent indicators.
LED Light Sources
Citizen Electronics – produces COB LEDs for general lighting applications with superior brightness and efficacy and with excellent color control and reliability.

Crystal IS – an Asahi Kasei company, manufactures UVC LEDs that can be used in disinfection and instrumentation applications. The company’s Klaran line of UVC LEDs emit ultraviolet light in the key germicidal wavelength range of 260nm to 275nm.

Audax Electronics – builds high-performance LED modules utilizing the latest SMD technologies; standard products are designed to work with LEDiL optics.

Lumileds – manufactures high-performance LEDs for general illumination applications, including CSP, COB, color, high-power, horticultural, IR, UV and mid-power packages.

Xicato – offers an ecosystem of intelligent LED modules for downlight and spotlight luminaires, integrating electronics, software and connectivity. Also offering programmable drivers featuring Bluetooth and wired control.

LED Optics
LEDiL – creates a wide range of top quality and cost effective standard and custom lenses and reflectors for a variety of LED lighting applications.

LensVector – produces liquid crystal controllable lenses in multiple sizes that enable the beam angle from a luminaire to be dynamically shaped from less than 10° to greater than 50°.

Gaggione – manufactures high-quality standard and custom LED optics including collimators, reflectors and Fresnel lenses.

Thermal Management
MechaTronix – designs passive and active LED coolers, including round pin fin and star heat sinks with standard mounting holes for direct or holder mounting of COB LEDs and optics.

Celera – produces the most reliable thermal interface materials for LED lighting with a simple “peel-and-stick” design.

LED Connectors
Bender + Wirth – offers the most comprehensive line of high quality, pre-wired COB holders with optics mounting options.

BBJ – makes a variety of connectors for lighting applications, including COB LED holder systems.

Ideal Industries – provides innovative high-quality COB LED holders and LED optics adaptors.

Amphenol LTW – supplies waterproof interconnects from IP65 to IP69K for rugged and harsh environment applications including LED lighting and signage.

Lighting Sensors & Controls
EnOcean – provides self-powered (energy-harvesting) wireless switches and sensors for BLE-enabled LED lighting modules.

Xicato – offers intelligent sensors with wireless nodes that transmit sensor data over the Xicato GalaXi™ Bluetooth network.

LED Surge Protection
ABLE Power Products – offers patented designs for hard-wired in-line surge protection for LED lighting.

LED Drivers
MEAN WELL – manufactures more than 1000 high-quality LED driver models from 8W to 600W, complying with global lighting standards.

Enedo – delivers the widest range of constant current drivers and the smallest constant voltage drivers available in the industry.

LTF Technology – provides a wide variety of innovative LED Driver and Electronic Transformer solutions. Triac, ELV and 0-10V dimming options. CC or CV available with very small form factors. Modified standard and full customs drivers available.

uPowerTek – uPowerTek designs and manufactures state of the art, high-quality intelligent LED drivers for the grow light market. These drivers feature wireless programming, UL Class P, IP67 and 7 year warranty.

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Design Resources
notWired.co - provides engineering services and expertise in hardware and firmware design. Primarily focus on RF & Microwave design, LED control systems, and embedded connectivity.
NovaSensor/Amphenol – produces high-performance MEMS pressure sensors for medical, automotive, industrial, and consumer applications.

Pressure-Sensor.COM – designs and manufactures OEM and custom pressure sensor/transducer solutions. Standard products from include wet/wet differential pressure sensors PSC112 and the Bonded-MEMS PSC812.

Sensata Technologies, Inc. – makes pressure sensors with ceramic capacitive and hermetic technologies for a full range of heating and air conditioning systems.

SGX Sensortech/Amphenol – a market leader in innovative gas detector sensors that offer sensing technology for environmental, health and safety and materials analysis applications.

TDK InvenSense – offers a wide range of 6-axis and 9-axis motion sensors as well as analog, PDM, and I²S MEMS microphones for the IoT, wearable, mobile, smart remote and tablet markets.

TE Connectivity – recently acquired Measurement Specialties (MEAS), one of the largest connectivity and sensor companies in the world. Offers flow, fluid property, force, humidity, photo optic, piezo film, position, pressure, scanning, temperature, vibration and ultrasonic sensors.

Teleaire/Amphenol – offers low-cost infrared CO2 gas sensing technology addressing a wide variety of HVAC (commercial & residential), industrial, automotive, appliance, and medical applications.

Thermometrics/Amphenol – provides NTC and PTC thermistors and RTD’s, chips, beads, discs, rods, and probes with standard and custom assemblies. Temperature ranges from cryogenic to 450°C with resettable fuse PTC applications.

Gaging / Metrology

Arnold Gauge – provides the world’s finest custom in-process measurement solutions since 1918.

CDI Data Collection Solutions – offers a desktop data collection kiosk that is ideal for desktop data collection and interfaces with most any SPC capable gage (caliper, indicator, micrometer) in addition to Solartron Metrology’s Orbit® 3 Digital Gaging Network.

Mahr – provides a large range of easy to use measuring and metrology tools that deliver reliable data. Mahr Federal products are used for professional measuring applications where length, form, and surface deviations are inspected on workpieces throughout the automotive, aerospace, and other scientific sectors.

MicroRidge Systems, Inc. – offers the ability to easily connect any combination of digital gages (calipers, micrometers, digital indicators, etc.) and multiple RS-232 devices to your PC.

Mitutoyo America – producer of micrometers since 1937 and now recognized as a world leader in metrology. Produces high-quality products including calipers, indicators and gages.

Prolink Corporation – offers automated data collection and quality analysis solutions for both small and large companies. Prolink provides inexpensive products that are easy to implement and maintain.

Solartron Metrology – designs digital gage probes, LVDT’s, optical linear encoders and associated instrumentation, as well as offers the Orbit® Digital Measuring Network.

Starrett Company – produces precision measurement tools such as, micrometers, calipers, rules, levels, electronic gages, dial indicators, gage blocks, granite surface plates and custom engineered products.

Position Feedback

Alliance Sensors Group – provides the industry’s finest LVIT position sensors specifically designed for industrial and automation applications. Sensors for roller position, gauging applications, cylinder positioning, and much more.

Gentech International Ltd. – provides a variety of switching, sensing and control solutions and supplies a comprehensive range of standard level, flow, and position sensors, including new optical sensing solutions.

Heidenhain – develops and manufactures the world’s finest linear encoders, angular encoders, rotary encoders & gaging probes. Our superior technology is utilized in high-precision motors, motion control and machining systems worldwide.

Madison Company – designs and manufactures level switches and sensors, temperature sensors and proximity sensors for OEM installations worldwide. Applications include off-highway vehicles, food equipment, appliances and medical equipment.

Micro-Epsilon – creates draw wire displacement sensors for measuring linear movement using a flexible cable and high accuracy encoders.

Schaevitz Sensors – offers industrial linear displacement sensors and rotary displacement sensors.

SmartTool Technologies – makes electronic protractors and OEM inclinometers designed for angle measurement.

Automation & Controls

ACR Systems, Inc. – manufactures a line of world class data loggers that measure and record temperature, relative humidity, electric current, pressure, process signals, pulse frequency, power quality and more.

NK Technologies – from motor monitoring to heater status, factory automation and semiconductor tools to water/wastewater plants, NK Technologies has a family of current sensors to meet your application needs.
Amplifiers & ICs

Skyworks Solutions, Inc. – designs innovative high-performance analog semiconductors. Skyworks supports automotive, broadband, wireless infrastructure, energy management, GPS, industrial, medical, military, wireless networking, smartphone and tablet applications. The company's portfolio includes amplifiers, attenuators, circulators, demodulators, detectors, diodes, directional couplers, front-end modules, hybrids, infrastructure RF subsystems, lighting and display solutions, mixers, modulators, optocouplers, opto-isolators, phase shifters, PLL/synthesizers/VCOs, power dividers/combiners, power management devices, receivers, and switches.

Sumitomo Electric Device Innovations USA – supplies microwave and millimeter wave RF devices for cellular, broadcast, satellite, point-to-point radio, general communications and radar applications. Provides leading-edge GaAs and GaN products such as low noise amplifiers, up converters, down converters, internally matched FET amplifiers (IMFET), amplifiers, and discrete transistors. A recognized leader in quality and reliability with a strong heritage in research and development.

Transcom – GaAs FETs product line offers devices with gate width of 160 um, 300 um, 600 um, 1.2 mm, 2.4 mm, 5 mm and 12 mm. All small signal devices are processed with 0.25 um gate. Devices with gate width larger than 1.2 mm can be processed with either 0.25 um or 0.5 um gate. This provides the flexibility for improving yield, and lowering cost, when devices are needed only for low frequency operation. Our PHEMT devices are fabricated with a proven technology that demonstrates both low noise and high dynamic range.

Connectors & Cables

Carlisle Interconnect Technologies – produces high-performance cable interconnect systems and manufactures high end RF/Microwave connectors. Develops and produces high-speed wireless communications, automated test equipment, microwave/RF transmission and more.

Micro-Coax – provides semi-rigid cable, hand-formable cable, flexible coax cable, spline dielectric coax cable and RF cable assemblies.

Oscillators & Timing

Mercury United Electronics Inc. – manufactures frequency control products that include crystals, oscillators, low EMI spread spectrum clock oscillators, (quick-turn) TCXO’s, VCTCXO’s, VCXO’s, OCXO’s and monolithic crystal filters.

MtronPTI – provides crystal-based timing solutions such as TCXO and OCXO products for use in wireless or wireline communications equipment, computing, and networking equipment. Also provides high-performance custom and semi-custom filter applications for RF and microwave applications.

Taitien – offers OCXO, TCXO, VCXO, crystal, and crystal oscillators. Taitien frequency products support various fields including automotive, consumer electronics, information technology and telecommunications.

Passives & Materials

ARC Technologies – designs and manufactures microwave absorbing materials for commercial and defense applications. While providing a complete range of standard absorber products, ARC Technologies also offers dielectric materials, composites, radomes, and radar absorbing structures (RAS).

Knowles Capacitors (Dielectric Laboratories) – offers application specific microwave and millimeter wave components serving customers in fiber optic, wireless, medical, transportation, semiconductor, avionics and military markets. Manufacturers high Q multi-layer capacitors (MLC) and single-layer capacitors (SLC), resonators, filters, broadband DC blocks, thin film components, and custom ceramic components.

Tai-Saw Technology Co. Ltd. – recognized as the leading SAW (surface acoustic wave) device supplier in Taiwan, as well as the key OEM/ODM supplier of SAW devices in the world.

Three Uniques About CDI:

Our commerce enablement tools make it efficient and effective for customers to find and purchase the right technical solution from our world class suppliers.

Our professional, personalized and flexible customer service makes us easy to do business with.

Our product design support coupled with our expertise, tools and world class products helps customers accelerate their time to market.
PROVEN PROCESS

ENGAGEMENT

Identify Problems
- Needs
- Wants

Connect to Solutions
- Components
- Design Services
- Custom Products

Deliver
- Evaluation Boards
- Data Packages
- Prototypes

EXECUTION

Deliverables

Shipments

Inventory Management

Quotes

Samples

GUARANTEE

CDI will leverage its product knowledge, technical expertise, and evaluation tools to accelerate your time to market, even if we have to recommend a competitor’s solution or help design a custom solution.

Contact Component Distributors, Inc.

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